113925

Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Maune Baker Examiner #: 76689 Date: 2/10/04

Art Unit: 1624 Phone Number 30 2-0805 Serial Number: 10/006636

Mail Box and Bldg/Room Location: REM 2A01 Results Format Preferred (circle): ~~PAPER~~ DISK E-MAIL

Mail Box 2A05

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): Please see attached

Earliest Priority Filing Date: 12/2000

***For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.**

Please search the compounds of attached claim 12. Note that the claim contains compounds denoted by structural formula AND by chemical name.

Please also run a separate inventor search.

Thank you!

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STAFF USE ONLY	Type of Search		Vendors and cost where applicable
Searcher: Arnold Rabuluite	NA Sequence (#)		STN
Searcher Phone #: 272-2532	AA Sequence (#)		Dialog
Searcher Location:	Structure (#)		Questel/Orbit
Date Searcher Picked Up: 2/10/04	Bibliographic		Dr.Link
Date Completed: 2/11/04	Litigation		Lexis/Nexis
Searcher Prep & Review Time:	Fulltext		Sequence Systems
Clerical Prep Time:	Patent Family		WWW/Internet
Online Time:	Other		Other (specify)

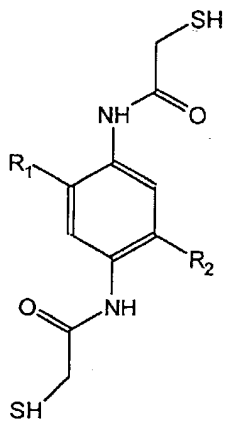
PTO-1590 (1-2000)

9. A multifunctional linker molecule according to any of claims 1 to 8, characterized in that $FUNC_1$ and $FUNC_2$ independently of each other are connected to X via N, C, S, or P, and are selected from the group comprising
-NH, -NHCO, -NHCONH, -NHCSNH, -NHCONHNH, -NHCSNHNH, -NHCONHNHCO, and –NHCONHNHCO in case of a connection via N;
-CONH, -CONHNH, and –CONHNHCO in case of a connection via C;
$-SO_2NH$, $-SO_2NHNH$, and $-SO_2NHNHCO$ in case of a connection via S; and
$-PO_2NH$, $-PO_2NHNH$, and $-PO_2NHNHCO$ in case of a connection via P.

10. A multifunctional linker molecule according to any of claims 1 to 9, characterized in that CON_1 and CON_2 connected to $FUNC_1$ and $FUNC_2$ via NH or CO, independently of each other are selected from the groups comprising
$-(CHR)_nCOOH$; $-(CHR)_nNC$; $-(CHR)_nNH_2$; $-(CHR)_nNHCS_2H$; $-(CHR)_nOPO_3H_2$; $-(CHR)_nOSO_3H$; $-(CHR)_nPO_3H_2$; $-(CHR)_nSH$; $-(CHR)_nSO_3H$; –CSOH; and $-CS_2H$ in case of a connection via NH; and
$-(CHR)_nCOOH$; $-(CHR)_nNC$; $-(CHR)_nNH_2$; $-(CHR)_nNHCS_2H$; $-(CHR)_nOPO_3H_2$; $-(CHR)_nOSO_3H$; $-(CHR)_nPO_3H_2$; $-(CHR)_nSH$; and $-(CHR)_nSO_3H$ in case of a connection via CO; and
where R is H, CH_2OH, or CH_3 and n is 1 or 2, and ionic forms thereof.

11. A multifunctional linker molecule according to claim 10, characterized in that CON_1 and CON_2 independently of each other comprise branched molecular structures.

12. A multifunctional linker molecule which is selected from the group comprising 1,4-dimercaptoacetamidobenzene of the general formula



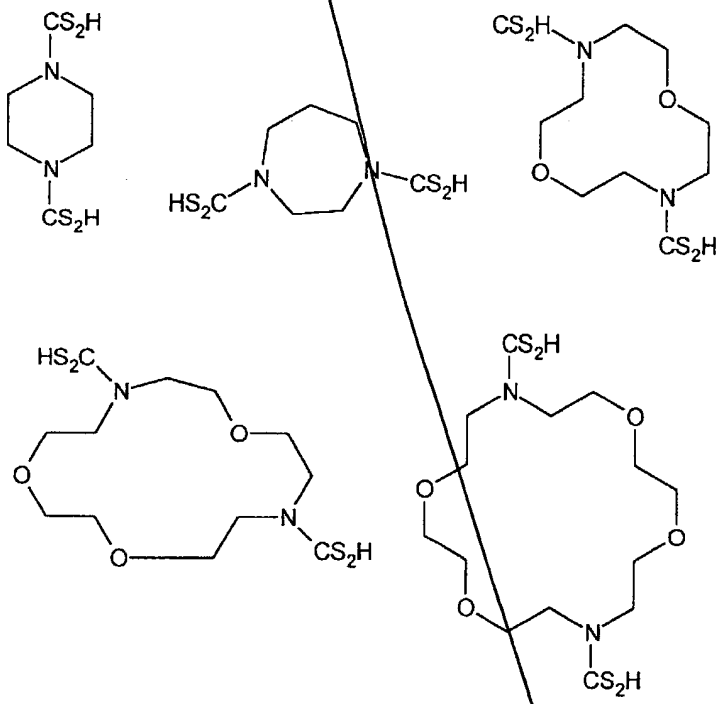
R_1/R_2 = CH_3 Cl

Search this structure AND see next pg

search these compounds too! (different than structure on previous page)

in which $R_{1,2}$ is independently selected from CH_3 and/or Cl, 1,4-dimercaptoacetamidocyclohexane, 1,4-dimercaptoacetamido-9,10-anthraquinone, 1,5-dimercaptoacetamido-9,10-anthraquinone, 1,8-dimercaptoacetamidooctane, 1,4-dithiocarbamatobenzene and 1,4-dithiocarbamatocyclohexane.

13. Multifunctional linker molecule selected from the group comprising



14. 1-, 2-, or 3-dimensional assembly of nanostructured units comprising a multifunctional linker according to any of claims 1 to 13, wherein the conductivity of the assembly is determined by the structure of the multifunctional linker.

15. Assembly according to claim 14, characterized in that the nanostructured units are selected from the group comprising nanoparticles, like metal, semiconductor, or core/shell semiconductor nanoparticles, nanowires, nanotubes, nanobelts, and electrodes.

STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 113925

TO: Maurie Garcia
Location: REM/2A01/2A05
Art Unit: 1639
Wednesday, February 11, 2004

Case Serial Number: 10/006636

From: Deirdre Arnold
Location: Biotech-Chem Library
REM 1A64
Phone: 571-272-2532

Deirdre.Arnold@uspto.gov

Search Notes

Examiner Baker:

Please note the following concerning the search results for case 10/006,636:

- The inventor search query returned a number of records that may not be relevant to this case; these are marked with✱.
- All of the named compounds with one exception were searched with a query based upon the structures indexed in the CAPLUS record retrieved with this application number; the query retrieves exact compounds and mixtures, but not derivatives. The remaining named compound was searched with a substructure query which retrieves derivatives; this was done because a chemical name search for this compound in Registry was not successful.
- Some of the Marpat retrievals resulted from incomplete iterations and, therefore, may not be relevant.

If you require clarifications or further information, please contact me.

Thank you for using STIC services.

Regards,
Deirdre Arnold

This search was supervised by Paul Schulwitz.

=> file zcaplus

FILE 'ZCAPLUS' ENTERED AT 11:09:23 ON 11 FEB 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 11 Feb 2004 VOL 140 ISS 7
FILE LAST UPDATED: 10 Feb 2004 (20040210/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

Headings for files used

=> file hcaplus

FILE 'HCAPLUS' ENTERED AT 11:09:31 ON 11 FEB 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 11 Feb 2004 VOL 140 ISS 7
FILE LAST UPDATED: 10 Feb 2004 (20040210/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> FIL STNGUIDE

FILE 'STNGUIDE' ENTERED AT 11:09:52 ON 11 FEB 2004
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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Feb 6, 2004 (20040206/UP).

=> d que l29
L26 6 SEA FILE=HCAPLUS ABB=ON PLU=ON (("WESSELS J"/AU OR "WESSELS J A"/AU OR "WESSELS J C"/AU OR "WESSELS J C M"/AU OR "WESSELS J F"/AU OR "WESSELS J G H"/AU OR "WESSELS J H"/AU OR "WESSELS J J"/AU OR "WESSELS J M"/AU OR "WESSELS J M C"/AU OR "WESSELS J N"/AU OR "WESSELS J P"/AU OR "WESSELS J P H"/AU OR "WESSELS J S C"/AU OR "WESSELS J T"/AU OR "WESSELS J W"/AU) OR ("WESSELS JURINA"/AU OR "WESSELS JURINA M"/AU OR "WESSELS JURINA MARGARETE"/AU)) AND (?LINKER? OR ?CHARGE?)/TI

Wessels

title keywords

L27 25 SEA FILE=HCAPLUS ABB=ON PLU=ON (("FORD W"/AU OR "FORD W B"/AU OR "FORD W C JR"/AU OR "FORD W C L"/AU OR "FORD W CHRISTOPHER L"/AU OR "FORD W D"/AU OR "FORD W D A"/AU OR "FORD W D ANDREW"/AU OR "FORD W E"/AU OR "FORD W E III"/AU OR "FORD W F"/AU OR "FORD W G F"/AU OR "FORD W G KENNETH"/AU OR "FORD W H"/AU OR "FORD W HUTSON"/AU OR "FORD W K"/AU OR "FORD W K JR"/AU OR "FORD W KENT JR"/AU OR "FORD W L"/AU OR "FORD W M"/AU OR "FORD W N"/AU OR "FORD W O JR"/AU OR "FORD W P"/AU OR "FORD W P J"/AU OR "FORD W R"/AU OR "FORD W R JR"/AU OR "FORD W T"/AU OR "FORD W W"/AU) OR ("FORD WILIAM"/AU OR "FORD WILIAM E"/AU OR "FORD WILLIAM"/AU OR "FORD WILLIAM B III"/AU OR "FORD WILLIAM C"/AU OR "FORD WILLIAM C JR"/AU OR "FORD WILLIAM C L"/AU OR "FORD WILLIAM CHRISTOPHER LIBERTY"/AU OR "FORD WILLIAM CLIFFORD JR"/AU OR "FORD WILLIAM D"/AU OR "FORD WILLIAM DOUGLAS"/AU OR "FORD WILLIAM E"/AU OR "FORD WILLIAM ELLSWORTH"/AU OR "FORD WILLIAM F"/AU OR "FORD WILLIAM FRANK"/AU OR "FORD WILLIAM FREDERICK"/AU OR "FORD WILLIAM G"/AU OR "FORD WILLIAM G F"/AU OR "FORD WILLIAM GERALD"/AU OR "FORD WILLIAM GERALD F"/AU OR "FORD WILLIAM H"/AU OR "FORD WILLIAM L"/AU OR "FORD WILLIAM M"/AU OR "FORD WILLIAM MARK"/AU OR "FORD WILLIAM P"/AU OR "FORD WILLIAM R"/AU OR "FORD WILLIAM R JR"/AU OR "FORD WILLIAM T"/AU OR "FORD WILLIAM W"/AU OR "FORD WM E"/AU OR "FORD WM K JR"/AU OR "FORD WM L"/AU OR "FORD WM P"/AU OR "FORD WM W"/AU)) AND (?LINKER? OR ?CHARGE?)/TI

Ford

→ title keywords

L28 5 SEA FILE=HCAPLUS ABB=ON PLU=ON ((YASUDA/AU OR "YASUDA A"/AU OR "YASUDA A K"/AU) OR "YASUDA AKIO"/AU) AND (?LINKER? OR ?CHARGE?)/TI

Yasuda

→ keywords in title only

L29 31 SEA FILE=HCAPLUS ABB=ON PLU=ON (L26 OR L27 OR L28)

combine sets

=> d l29 bib abs 1-
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

YOU HAVE REQUESTED DATA FROM 31 ANSWERS - CONTINUE? Y/(N):y

L29 ANSWER 1 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:933520 HCAPLUS
TI Gold-nanoparticle/organic **linker** films: self-assembly, electronic and structural characterisation, composition and vapour sensitivity
AU Joseph, Yvonne; Krasteva, Nadejda; Besnard, Isabelle; Guse, Berit; Rosenberger, Miriam; Wild, Ute; Knop-Gericke, Axel; Schloegl, Robert; Krustev, Rumen; **Yasuda, Akio**; Vossmeyer, Tobias
CS Materials Science Laboratories, Sony International (Europe) GmbH, Hedelfinger Str. 61, D-70327 Stuttgart, Germany
SO Faraday Discussions (2003), Volume Date 2004, 125, 77-97

CODEN: FDISE6; ISSN: 1359-6640
PB Royal Society of Chemistry
DT Journal
LA English
AB Gold-nanoparticle/organic films were prepared via layer-by-layer self-assembly using dodecylamine-stabilized Au-nanoparticles and poly(propyleneimine) (PPI) dendrimers of generation one to five (G1-G5) or hexadecanedithiol (HDT) as linker compds. TEM and FE-SEM images revealed that the bulk of the films consisted of nanoparticles with diams. of about 4 nm. XPS was used to study the chemical composition of the films. The C 1s and N 1s signals of an AuPPI-G4 film were interpreted qual. according to the dendrimer structure. The absence of the nitrogen signal in case of an AuHDT film indicated that the dodecylamine ligands were quant. exchanged during film assembly. About 76% of the sulfur atoms were bound to the nanoparticles, the remainder being present as free thiol (S-H) groups. All films displayed linear current-voltage characteristics and Arrhenius-type activation of charge transport. The conductivities of the AuPPI films decreased exponentially over approx. two orders of magnitude (6.8 + 10-2 to 1.0 + 10-3 Ω-1 cm-1) with a five-fold increase of the dendrimer generation number Dosing the films with solvent vapors caused their resistances to increase. Using different solvent vapors demonstrated that the sensitivity of this response was determined by the solubility properties of the linker compds. Microgravimetric measurements showed that absorption of analyte was consistent with a Langmuir adsorption model. These measurements also revealed a linear correlation between the elec. response (ΔR/Rini) and the concentration of absorbed analyte. The absorption of d4-methanol from a saturated vapor atmospheric was studied by neutron reflectometry with an AuPPI-G4 film. This measurement indicated condensation of methanol on top of the film and a uniform distribution of the analyte across the film thickness.

L29 ANSWER 2 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:674446 HCAPLUS
DN 139:370740
TI Measurements of the branching fractions of **charged** B decays to K±π.-+.π± final states
AU Aubert, B. Barate, R.; Boutigny, D.; Gaillard, J.-M.; Hicheur, A.; Karyotakis, Y.; Lees, J. P.; Robbe, P.; Tisserand, V.; Zghiche, A.; Palano, A.; Pompili, A.; Chen, J. C.; Qi, N. D.; Rong, G.; Wang, P.; Zhu, S.; Eigen, G.; Ofte, I.; Stugu, B.; Abrams, G. S.; Borgland, A. W.; Breon, A. B.; Brown, D. N.; Button-Shafer, J.; Cahn, R. N.; Charles, E.; **Day, C. T.**; Gill, M. S.; Gritsan, A. V.; Groysman, Y.; Jacobsen, R. G.; Kadel, R. W.; Kadyk, J.; Kerth, L. T.; Olomensky, Yu. G.; Kral, J. F.; Kukartsev, G.; LeClerc, C.; Levi, M. E.; Lynch, G.; Mir, L. M.; Oddone, P. J.; Orimoto, T. J.; Pripstein, M.; Roe, N. A.; Romosan, A.; Ronan, M. T.; Shelkov, V. G.; Telnov, A. V.; Wenzel, W. A.; Ford, K.; Harrison, T. J.; Hawkes, C. M.; Knowles, D. J.; Morgan, S. E.; Penny, R. C.; Watson, A. T.; Watson, N. K.; Goetzen, K.; Held, T.; Koch, H.; Lewandowski, B.; Pelizaeus, M.; Peters, K.; Schmuecker, H.; Steinke, M.; Barlow, N. R.; Boyd, J. T.; Chevalier, N.; Cottingham, W. N.; Kelly, M. P.; Latham, T. E.; Mackay, C.; Wilson, F. F.; Abe, K.; Cuhadar-Donszelmann, T.; Hearty, C.; Mattison, T. S.; McKenna, J. A.; Thiessen, D.; Kyberd, P.; McKemey, A. K.; Blinov, V. E.; Bukin, A. D.; Golubev, V. B.; Ivanchenko, V. N.; Kravchenko, E. A.; Onuchin, A. P.; Serednyakov, S. I.; Skovpen, Yu. I.; Solodov, E. P.; Yushkov, A. N.; Best,

D.; Bruinsma, M.; Chao, M.; Kirkby, D.; Lankford, A. J.; Mandelkern, M.; Mommsen, R. K.; Roethel, W.; Stoker, D. P.; Buchanan, C.; Hartfiel, B. L.; Shen, B. C.; del Re, D.; Hadavand, H. K.; Hill, E. J.; MacFarlane, D. B.; Paar, H. P.; Rahatlou, Sh.; Sharma, V.; Berryhill, J. W.; Campagnari, C.; Dahmes, B.; Kuznetsova, N.; Levy, S. L.; Long, O.; Lu, A.; Mazur, M. A.; Richman, J. D.; Verkerke, W.; Beck, T. W.; Beringer, J.; Eisner, A. M.; Heusch, C. A.; Lockman, W. S.; Schalk, T.; Schmitz, R. E.; Schumm, B. A.; Seiden, A.; Turri, M.; Walkowiak, W.; Williams, D. C.; Wilson, M. G.; Albert, J.; Chen, E.; Dubois-Felsmann, G. P.; Dvoretskii, A.; Hitlin, D. G.; Narsky, I.; Porter, F. C.; Ryd, A.; Samuel, A.; Yang, S.; Jayatilleke, S.; Mancinelli, G.; Meadows, B. T.; Sokoloff, M.; Abe, T.; Blanc, F.; Bloom, P.; Chen, S.; Clark, P. J.; Ford, W. T.; Nauenberg, U.; Olivas, A.; Rankin, P.; Roy, J.; Smith, J. G.; van Hoek, W. C.; Zhang, L.; Harton, J. L.; Hu, T.; Soffer, A.; Toki, W. H.; Wilson, R. J.; Zhang, J.; Altenburg, D.; Brandt, T.; Brose, J.; Colberg, T.; Dickopp, M.; Dubitzky, R. S.; Hauke, A.; Lacker, H. M.; Maly, E.; Mueller-Pfefferkorn, R.; Nogowski, R.; Otto, S.; Schubert, J.; Schubert, K. R.; Schwierz, R.; Spaan, B.; Wilden, L.; Bernard, D.; Bonneaud, G. R.; Brochard, F.; Cohen-Tanugi, J.; Grenier, P.; Thiebaux, Ch.; Vasileiadis, G.; Verderi, M.; Khan, A.; Lavin, D.; Muheim, F.; Playfer, S.; Swain, J. E.; Andreotti, M.; Azzolini, V.; Bettoni, D.; Bozzi, C.; Calabrese, R.; Cibinetto, G.; Luppi, E.; Negrini, M.; Piemontese, L.; Sarti, A.; Treadwell, E.; Anulli, F.; Baldini-Ferroli, R.; Biasini, M.; Calcaterra, A.; de Sangro, R.; Falciai, D.; Finocchiaro, G.; Patteri, P.; Peruzzi, I. M.; Piccolo, M.; Pioppi, M.; Zallo, A.; Buzzo, A.; Capra, R.; Contri, R.; Crosetti, G.; Lo Vetere, M.; Macri, M.; Monge, M. R.; Passaggio, S.; Patrignani, C.; Robutti, E.; Santroni, A.; Tosi, S.; Bailey, S.; Morii, M.; Won, E.; Bhimji, W.; Bowerman, D. A.; Dauncey, P. D.; Egede, U.; Eschrich, I.; Gaillard, J. R.; Morton, G. W.; Nash, J. A.; Sanders, P.; Taylor, G. P.; Grenier, G. J.; Lee, S.-J.; Mallik, U.; Cochran, J.; Crawley, H. B.; Lamsa, J.; Meyer, W. T.; Prell, S.; Rosenberg, E. I.; Yi, J.; Davier, M.; Grosdidier, G.; Hoecker, A.; Laplace, S.; Le Diberder, F.; Lepeltier, V.; Lutz, A. M.; Petersen, T. C.; Plaszczynski, S.; Schune, M. H.; Tanto, L.; Wormser, G.; Brigljevic, V.; Cheng, C. H.; Lange, D. J.; Wright, D. M.; Bevan, A. J.; Coleman, J. P.; Fry, J. R.; Gabathuler, E.; Gamet, R.; Kay, M.; Parry, R. J.; Payne, D. J.; Sloane, R. J.; Touramanis, C.; Back, J. J.; Harrison, P. F.; Shorthouse, H. W.; Strother, P.; Vidal, P. B.; Brown, C. L.; Cowan, G.; Flack, R. L.; Flaecher, H. U.; George, S.; Green, M. G.; Kurup, A.; Marker, C. E.; McMahon, T. R.; Ricciardi, S.; Salvatore, F.; Vaitsas, G.; Winter, M. A.; Brown, D.; Davis, C. L.; Allison, J.; Barlow, R. J.; Forti, A. C.; Hart, P. A.; Hodgkinson, M. C.; Jackson, F.; Lafferty, G. D.; Lyon, A. J.; Weatherall, J. H.; Williams, J. C.; Farbin, A.; Jawabery, A.; Kovalskyi, D.; Lae, C. K.; Lillard, V.; Roberts, D. A.; Blaylock, G.; Dallapiccola, C.; Flood, K. T.; Hertzbach, S. S.; Kofler, R.; Koptchev, V. B.; Moore, T. B.; Saremi, S.; Staengle, H.; Willocq, S.; Cowan, R.; Sciolla, G.; Taylor, F.; Yamamoto, R. K.; Mangeol, D. J. J.; Patel, P. M.; Lazzaro, A.; Palombo, F.; Bauer, J. M.; Cremaldi, L.; Eschenburg, V.; Godang, R.; Kroeger, R.; Reidy, J.; Sanders, D. A.; Summers, D. J.; Zhao, H. W.; Brunct, S.; Cote-Ahern, D.; Hast, C.; Taras, P.; Nicholson, H.; Cartaro, C.; Cavallo, N.; De Nardo, G.; Fabozzi, F.; Gatto, G.; Lista, L.; Paolucci, P.; Piccolo, D.; Sciacca, C.; Baak, M. A.; Raven, G.; LoSecco, J. M.; Gabriel, T. A.; Brau, B.; Gan, K. K.; Honscheid, K.; Hufnagel, D.; Kagan, H.; Kass, R.; Pulliam, T.; Wong, Q. K.; Brau, J.; Frey, R.; Morandin, M.; Posocco, M.; Rotondo, M.; Simonetto, F.; Stroili, R.; Tiozzo, G.; Voci, C.; Benayoun, M.; Briand, H.; Chauveau, J.; David, P.; de la Vaissiere, Ch.; Del Buono, L.; Hamon, O.; John, M. J. J.; Leruste, Ph.; Ocariz, J.; Pivk, M.; Roos, L.; Stark, J.; T'Jampens, S.; Therin, G.; Manfredi, P. F.; Re, V.; Behera, P. K.; Gladney, L.; Guo, Q. H.; Panetta,

J.; Angelini, C.; Batignani, G.; Bettarini, S.; Bondioli, M.; Bucci, F.; Calderini, G.; Carpinelli, M.; Del Gamba, V.; Forti, F.; Giorgi, M. A.; Lusiani, A.; Marchiori, G.; Martinez-Vidal, F.; Morganti, M.; Neri, N.; Paoloni, E.; Rama, M.; Rizzo, G.; Sandrelli, F.; Walsh, J.; Haire, M.; Judd, D.; Paick, K.; Wagoner, D. E.; Danielson, N.; Elmer, P.; Lu, C.; Miftakov, V.; Olsen, J.; Smith, A. J. S.; Tanaka, H. A.; Varnes, E. W.; Bellini, F.; Cavoto, G.; Faccini, R.; Ferrarotto, F.; Ferroni, F.; Gaspero, M.; Mazzoni, M. A.; Morganti, S.; Pierini, M.; Piredda, G.; Safai, Tehrani, F.; Voena, C.; Christ, S.; Wagner, G.; Waldi, R.; Adye, T.; De Groot, N.; Franek, B.; Geddes, N. I.; Gopal, G. P.; Olaiya, E. O.; Xella, S. M.; Aleksan, R.; Emery, S.; Gaidot, A.; Ganzhur, S. F.; Giraud, P.-F.; Hamel de Monchenault, G.; Kozanecki, W.; Langer, M.; Legendre, M.; London, G. W.; Mayer, B.; Schott, G.; Vasseur, G.; Yeche, Ch.; Zito, M.; Purohit, M. V.; Weidemann, A. W.; Yumiceva, F. X.; Aston, D.; Bartoldus, R.; Berger, N.; Boyarski, A. M.; Buchmueller, O. L.; Convery, M. R.; Coupal, D. P.; Dong, D.; Dorfan, J.; Dujmic, D.; Dunwoodie, W.; Field, R. C.; Glanzman, T.; Gowdy, S. J.; Grauges-Pous, E.; Hadig, T.; Halyo, V.; Hryn'ova, T.; Innes, W. R.; Jessop, C. P.; Kelsey, M. H.; Kim, P.; Kocian, M. L.; Langenegger, U.; Leith, D. W. G. S.; Luitz, S.; Luth, V.; Lynch, H. L.; Marsiske, H.; Messner, R.; Muller, D. R.; O'Grady, C. P.; Ozcan, V. E.; Perazzo, A.; Perl, M.; Petrak, S.; Ratcliff, B. N.; Robertson, S. H.; Roodman, A.; Salnikov, A. A.; Schindler, R. H.; Schwiening, J.; Simi, G.; Snyder, A.; Soha, A.; Stelzer, J.; Su, D.; Sullivan, M. K.; Va'vra, J.; Wagner, S. R.; Weaver, M.; Weinstein, A. J. R.; Wisniewski, W. J.; Wright, D. H.; Young, C. C.; Burchat, P. R.; Edwards, A. J.; Meyer, T. I.; Petersen, B. A.; Roat, C.; Ahmed, S.; Alam, M. S.; Ernst, J. A.; Saleem, M.; Wappler, F. R.; Bugg, W.; Krishnamurthy, M.; Spanier, S. M.; Eckmann, R.; Kim, H.; Ritchie, J. L.; Schwitters, R. F.; Izen, J. M.; Kitayama, I.; Lou, X. C.; Ye, S.; Bianchi, F.; Bona, M.; Gallo, F.; Gamba, D.; Borean, C.; Bosisio, L.; Della Ricca, G.; Dittongo, S.; Grancagnolo, S.; Lanceri, L.; Poropat, P.; Vitale, L.; Vuagnin, G.; Panvini, R. S.; Banerjee, Sw.; Brown, C. M.; Fortin, D.; Jackson, P. D.; Kowalewski, R.; Roney, J. M.; Band, H. R.; Dasu, S.; Datta, M.; Eichenbaum, A. M.; Johnson, J. R.; Kutter, P. E.; Li, H.; Liu, R.; Di Lodovico, F.; Mihalyi, A.; Mohapatra, A. K.; Pan, Y.; Prepost, R.; Sekula, S. J.; von Wimmersperg-Toeller, J. H.; Wu, J.; Wu, S. L.; Yu, Z.; Neal, H.

CS The BABAR Collaboration, Laboratoire de Physique des Particules, Annecy-le-Vieux, F-74941, Fr.

SO Los Alamos National Laboratory, Preprint Archive, High Energy Physics--Experiment (2003) 1-7, arXiv:hep-ex/0308065, 27 Aug 2003
CODEN: LNHEFS
URL: http://xxx.lanl.gov/pdf/hep-ex/0308065

PB Los Alamos National Laboratory

DT Preprint

LA English

AB Results of searches for B-meson decays to K+π-π+ with the BABAR detector are presented. With a data sample of 61.6 million B.hivin.B pairs, the authors measure the branching fractions and 90% confidence-level upper limits averaged over charge-conjugate states (the first error is statistical and the second is systematic): .SCRIPTB.(B+→K*0(892)π+)=(15.5±1.8+1.5-4.0) + 10-6, .SCRIPTB.(B+→f0(980)K+, f0→π+π-)=(9.2±1.2+2.1-2.6)+10-6, .SCRIPTB.(B+→.hivin.D0π+,.hivin.D0→K+.pi.-)=(184.6±3.2±9.7)+10-6, .SCRIPTB.(B+→ρ0(770)K+)<6.2+10-6 and .SCRIPTB.(B+→K+π-π+ non-resonant)<17+10-6.

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 3 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:611862 HCAPLUS

DN 139:313308

TI Measurement of branching fractions and **charge** asymmetries in B meson decays to $\eta(')K^*$, $\eta(')\rho$ and $\eta'\pi$

AU Aubert, B.; Barate, R.; Boutigny, D.; Gaillard, J.-M.; Hicheur, A.; Karyotakis, Y.; Lees, J. P.; Robbe, P.; Tisserand, V.; Zghiche, A.; Palano, A.; Pompili, A.; Chen, J. C.; Qi, N. D.; Rong, G.; Wang, P.; Zbu, Y. S.; Eigen, G.; Ofte, I.; Stugu, B.; Abrams, G. S.; Borgland, A. W.; Breon, A. B.; Brown, D. N.; Button-Shafer, J.; Cahn, R. N.; Charles, E.; Day, C. T.; **Gill, M. S.**; Gritsan, A. V.; Groysman, Y.; Jacobsen, R. G.; Kadel, R. W.; Kadyk, J.; Kerth, L. T.; Kolomensky, Yu. G.; Kral, J. F.; Kukartsev, G.; LeClerc, C.; Levi, M. E.; Lynch, G.; Mir, L. M.; Oddone, P. J.; Orimoto, T. J.; Pripstein, M.; Roe, N. A.; Romosan, A.; Ronan, M. T.; Shelkov, V. G.; Telnov, A. V.; Wenzel, W. A.; Ford, K.; Harrison, T. J.; Hawkes, C. M.; Knowles, D. J.; Morgan, S. E.; Penny, R. C.; Watson, A. T.; Watson, N. K.; Held, T.; Goetzen, K.; Koch, H.; Lewandowski, B.; Pelizaeus, M.; Peters, K.; Schmuecker, H.; Steinke, M.; Barlow, N. R.; Boyd, J. T.; Chevalier, N.; Cottingham, W. N.; Kelly, M. P.; Latham, T. E.; Mackay, C.; Wilson, F. F.; Abe, K.; Cuhadar-Donszelmann, T.; Hearty, C.; Mattison, T. S.; McKenna, J. A.; Thiessen, D.; Kyberd, P.; McKemey, A. K.; Blinov, V. E.; Bukin, A. D.; Golubev, V. B.; Ivanchenko, V. N.; Kravchenko, E. A.; Onuchin, A. P.; Serednyakov, S. I.; Skovpen, Yu. I.; Solodov, E. P.; Yushkov, A. N.; Best, D.; Bruinsma, M.; Chao, M.; Kirkby, D.; Lankford, A. J.; Mandelkern, M.; Mommsen, R. K.; Roethel, W.; Stoker, D. P.; Buchanan, C.; Hartfiel, B. L.; Shen, B. C.; del Re, D.; Hadavand, H. K.; Hill, E. J.; MacFarlane, D. B.; Paar, H. P.; Rahatlou, Sh.; Sharma, V.; Berryhill, J. W.; Campagnari, C.; Dahmes, B.; Kuznetsova, N.; Levy, S. L.; Long, O.; Lu, A.; Mazur, M. A.; Richman, J. D.; Verkerke, W.; Beck, T. W.; Beringer, J.; Eisner, A. M.; Heusch, C. A.; Lockman, W. S.; Schalk, T.; Schmitz, R. E.; Schumm, B. A.; Seiden, A.; Turri, M.; Walkowiak, W.; Williams, D. C.; Wilson, M. G.; Albert, J.; Chen, E.; Dubois-Felsmann, G. P.; Dvoretskii, A.; Hitlin, D. G.; Narsky, I.; Porter, F. C.; Ryd, A.; Samuel, A.; Yang, S.; Jayatilleke, S.; Mancinelli, G.; Meadows, B. T.; Sokoloff, M. D.; Abe, T.; Blanc, F.; Bloom, P.; Chen, S.; Clark, P. J.; Derrington, I. M.; Ford, W. T.; Lee, C. L.; Nauenberg, U.; Olivas, A.; Rankin, P.; Roy, J.; Smith, J. G.; Ulmer, K. A.; van Hoek, W. C.; Zhang, L.; Harton, J. L.; Hu, T.; Soffer, A.; Toki, W. H.; Wilson, R. J.; Zhang, J.; Altenburg, D.; Brandt, T.; Brose, J.; Colberg, T.; Dickopp, M.; Dubitzky, R. S.; Hauke, A.; Lacker, H. M.; Maly, E.; Mueller-Pfefferkorn, R.; Nogowski, R.; Otto, S.; Schubert, J.; Schubert, K. R.; Schwierz, R.; Spaan, B.; Wilden, L.; Bernard, D.; Bonneaud, G. R.; Brochard, F.; Cohen-Tanugi, J.; Grenier, P.; Thiebaux, Ch.; Vasileiadis, G.; Verderi, M.; Khan, A.; Lavin, D.; Muheim, F.; Playfer, S.; Swain, J. E.; Andreotti, M.; Azzolini, V.; Bettoni, D.; Bozzi, C.; Calabrese, R.; Cibinetto, G.; Luppi, E.; Negrini, M.; Piemontese, L.; Sarti, A.; Treadwell, E.; Anulli, F.; Baldini-Ferroli, R.; Biasini, M.; Calcaterra, A.; de Sangro, R.; Falciai, D.; Finocchiaro, G.; Patteri, P.; Peruzzi, I. M.; Piccolo, M.; Pioppi, M.; Zallo, A.; Buzzo, A.; Capra, R.; Contri, R.; Crosetti, G.; Lo Vetere, M.; Macri, M.; Monge, M. R.; Passaggio, S.; Patrignani, C.; Robutti, E.; Santroni, A.; Tosi, S.; Bailey, S.; Morii, M.; Won, E.; Bhimji, W.; Bowerman, D. A.; Dauncey, P. D.; Egede, U.; Eschrich, I.; Gaillard, J. R.; Morton, G. W.; Nash, J. A.; Sanders, P.; Taylor, G. P.; Grenier, G. J.; Lee, S.-J.; Mallik, U.; Cochran, J.; Crawley, H. B.; Lamsa, J.; Meyer, W. T.; Prell, S.; Rosenberg, E. I.; Yi, J.; Davier, M.; Grosdidier, G.; Hoecker, A.; Laplace, S.; Le Diberder, F.; Lepeltier, V.; Lutz, A. M.; Petersen, T. C.;

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CS Lab. Phys. Particules, Annecy-le-Vieux, Fr.

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AB We present preliminary measurements of branching fractions and charge asymmetries for the B meson decays B → η(')K*, B → η(')ρ, and B+ → η'π+. The data were recorded with the BABAR detector at PEP-II and correspond to 89 + 106 B.hivin.B pairs produced in e+e- annihilation through the Y(4S) resonance. We find the branching fractions .SCRIPTB.(B0 → ηK*0) = (19.0+2.2-2.1 + 1.3) + 10-6, .SCRIPTB.(B+ → ηK*+) = (25.7+3.8-3.6±1.8) + 10-6, .SCRIPTB.(B+ → ηρ+) = (10.5+3.1-2.8±1.3) +-6, .SCRIPTB.(B+ → η'ρ+) = (14.0+5.1-4.6±1.9) + 10-6 (<22 + 10-6 with 90% confidence), and .SCRIPTB.(B+ → η'π+) = (2.8+1.3-1.0±0.3) + 10-6 (< 4.5 + 10-6). We also set 90% CL upper limits of .SCRIPTB.(B0 → η'K*0) < 6.4 + 10-6 and .SCRIPTB.(B+ → η'K*+) < 12 + 10-6. The time-integrated charge asymmetries are .SCRIPTA.ch(ηρ+) = +0.06 ± 0.29 ± 0.02.

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TI Measurements of the branching fractions and bounds on the **charge** asymmetries of charmless 3-body **charged** B decays

AU Aubert, B.; Barate, R.; Boutigny, D.; Gaillard, J.-M.; Hicheur, A.; Karyotakis, Y.; Lees, J. P.; Robbe, P.; Tisserand, V.; Zghiche, A.; Palano, A.; Pompili, A.; Chen, J. C.; Qi, N. D.; Rong, G.; Wang, P.; Zhu, Y. S.; Eigen, G.; Ofte, I.; **Stugu**, **B**.; Abrams, G. S.; Borgland, A. W.; Breon, A. B.; Brown, D. N.; Button-Shafer, J.; Cahn, R. N.; Charles, E.; Day, C. T.; Gill, M. S.; Gritsan, A. V.; Groysman, Y.; Jacobsen, R. G.; Kadel, R. W.; Kadyk, J.; Kerth, L. T.; Kolomensky, Yu. G.; Kral, J. F.; Kukartsev, G.; LeClerc, C.; Levi, M. E.; Lynch, G.; Mir, L. M.; Oddone, P. J.; Orimoto, T. J.; Pripstein, M.; Roe, N. A.; Romosan, A.; Ronan, M. T.; Shelkov, V. G.; Telnov, A. V.; Wenzel, W. A.; Harrison, T. J.; Hawkes, C. M.; Knowles, D. J.; Penny, R. C.; Watson, A. T.; Watson, N. K.; Deppermann, T.; Goetzen, K.; Koch, H.; Lewandowski, B.; Pelizaeus, M.; Peters, K.; Schmuecker, H.; Steinke, M.; Barlow, N. R.; Bhimji, W.; Boyd, J. T.; Chevalier, N.; Cottingham, W. N.; Mackay, C.; Wilson, F. F.; Hearty, C.; Mattison, T. S.; McKenna, J. A.; Thiessen, D.; Kyberd, P.; McKemey, A. K.; Blinov, V. E.; Bukin, A. D.; Golubev, V. B.; Ivanchenko, V. N.; Kravchenko, E. A.; Onuchin, A. P.; Serednyakov, S. I.; Skovpen, Yu. I.; Solodov, E. P.; Yushkov, A. N.; Best, D.; Chao, M.; Kirkby, D.; Lankford, A. J.; Mandelkern, M.; McMahon, S.; Mommsen, R. K.; Roethel, W.; Stoker, D. P.; Buchanan, C.; Hadavand, H. K.; Hill, E. J.; MacFarlane, D. B.; Paar, H. P.; Rahatlou, Sh.; Schwanke, U.; Sharma, V.; Berryhill, J.

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AB We present measurements of branching fractions and charge asymmetries for charmless B-meson decays to 3-body final states of charged pions and kaons. The anal. uses 81.8 fb-1 of data collected at the Y(4S) resonance with the BABAR detector at the SLAC PEP-II asym. B factory. We measure the branching fractions B(B+ $\pi+\pi-\pi+$)=(10.9±3.3.+-.1.6)+10-6, B(B+ K+$\pi-\pi+$)=(59.1±3.8±3.2)+10-6, and B(B+ K+K-K+)=(29.6±2.1±1.6)+10-6 and provide 90% C.L. upper limits for other decays. We observe no charge asymmetries for these modes.

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TI Measurement of branching fractions and CP-violating **charge** asymmetries in B+ → ρ+π0 and B+ → ρ0π+ decays, and search for B0 → ρ0π0

AU Aubert, B.; Barate, R.; Boutigny, D.; Gaillard, J.-M.; Hicheur, A.; Karyotakis, Y.; Lees, J. P.; Robbe, P.; Tisserand, V.; Zghiche, A.; Palano, A.; Pompili, A.; Chen, J. C.; Qi, N. D.; Rong, G.; Wang, P.; Zhu, Y. S.; Eigen, G.; Ofte, I.; Stugu, B.; Abrams, G. S.; Borgland, A. W.; Breon, A. B.; Brown, D. N.; Button-Shafer, J.; Cahn, R. N.; Charles, E.; Day, C. T.; **Gill, M. S.**; Gritsan, A. V.; Groysman, Y.; Jacobsen, R. G.; Kadel, R. W.; Kadyk, J.; Kerth, L. T.; Kolomensky, Yu. G.; Kral, J. F.; Kukartsev, G.; LeClerc, C.; Levi, M. E.; Lynch, G.; Mir, L. M.; Oddone, P. J.; Orimoto, T. J.; Pripstein, M.; Roe, N. A.; Romosan, A.; Ronan, M. T.; Shelkov, V. G.; Telnov, A. V.; Wenzel, W. A.; Ford, K.; Harrison, T. J.; Hawkes, C. M.; Knowles, D. J.; Morgan, S. E.; Penny, R. C.; Watson, A. T.; Watson, N. K.; Deppermann, T.; Goetzen, K.; Koch, H.; Lewandowski, B.; Pelizaeus, M.; Peters, K.; Schmuecker, H.; Steinke, M.; Barlow, N. R.; Boyd, J. T.; Chevalier, N.; Cottingham, W. N.; Kelly, M. P.; Latham, E.; Mackay, C.; Wilson, F. F.; Abe, K.; Cuhadar-Donszelmann, T.; Hearty, C.; Mattison, T. S.; McKenna, J. A.; Thiessen, D.; Kyberd, P.; McKemey, A. K.; Blinov, V. E.; Bukin, A. D.; Golubev, V. B.; Ivanchenko, V. N.; Kravchenko, E. A.; Onuchin, A. P.; Serednyakov, S. I.; Skovpen, Yu. I.; Solodov, E. P.; Yushkov, A. N.; Best, D.; Bruinsma, M.; Chao, M.; Kirkby, D.; Lankford, A. J.; Mandelkern, M.; Mommsen, R. K.; Roethel, W.; Stoker, D. P.; Buchanan, C.; Hartfiel, B. L.; Shen, B. C.; del Re, D.; Hadavand, H. K.; Hill, E. J.; MacFarlane, D. B.; Paar, H. P.; Rahatlou, Sh.; Schwanke, U.; Sharma, V.; Berryhill, J. W.; Campagnari, C.; Dahmes, B.; Kuznetsova, N.; Levy, S. L.; Long, O.; Lu, A.; Mazur, M. A.; Richman, J. D.; Verkerke, W.; Beck, T. W.; Beringer, J.; Eisner, A. M.; Heusch, C. A.; Lockman, W. S.; Schalk, T.; Schmitz, R. E.; Schumm, B. A.; Seiden, A.; Turri, M.; Walkowiak, W.; Williams, D. C.; Wilson, M. G.; Albert, J.; Chen, E.; Dubois-Felsmann, G. P.; Dvoretskii, A.; Hitlin, D. G.; Narsky, I.; Porter, F. C.; Ryd, A.; Samuel, A.; Yang, S.; Jayatilleke, S.; Mancinelli, G.; Meadows, B. T.; Sokoloff, M. D.; Abe, T.; Blanc, F.; Bloom, P.; Chen, S.; Clark, P. J.; Ford, W. T.; Nauenberg, U.; Olivas, A.; Rankin, P.; Roy, J.; Smith, J. G.; van Hoek, W. C.; Zhang, L.; Harton, J. L.; Hu, T.; Soffer, A.; Toki, W. H.; Wilson, R. J.; Zhang, J.; Altenburg, D.; Brandt, T.; Brose, J.; Colberg, T.; Dickopp, M.; Dubitzky, R. S.; Hauke, A.; Lacker, H. M.; Maly, E.; Mueller-Pfefferkorn, R.; Nogowski, R.; Otto, S.; Schubert, J.; Schubert, K. R.; Schwierz, R.; Spaan, B.; Wilden, L.; Bernard, D.; Bonneaud, G. R.; Brochard, F.; Cohen-Tanugi, J.; Grenier, P.; Thiebaux, Ch.; Vasileiadis, G.; Verderi, M.; Khan, A.; Lavin, D.; Muheim, F.; Playfer, S.; Swain, J. E.; Tinslay, J.; Andreotti, M.; Azzolini, V.; Bettoni, D.; Bozzi, C.; Calabrese, R.; Cibinetto, G.; Luppi, E.; Negrini, M.; Piemontese, L.; Sarti, A.; Treadwell, E.; Anulle, F.; Baldini-Ferroli, R.; Biasini, M.; Calcaterra, A.; de Sangro, R.; Falciai, D.; Finocchiaro, G.; Patteri, P.; Peruzzi, I. M.; Piccolo, M.; Pioppi, M.; Zallo, A.; Buzzo, A.; Capra, R.; Crosetti, G.; Lo Vetere, M.; Macri, M.; Monge, M. R.; Passaggio, S.; Patrignani, C.; Robutti, E.; Santroni, A.; Tosi, S.; Bailey, S.; Morii, M.; Won, E.; Bhimji, W.; Bowerman, D. A.; Dauncey, P. D.; Egede, U.; Eschrich, I.; Gaillard, J. R.; Morton, G. W.; Nash, J. A.; Sanders, P.; Taylor, G. P.; Grenier, G. J.; Lee, S.-J.; Mallik, U.; Cochran, J.; Crawley, H. B.; Lamsa, J.; Meyer, W. T.; Prell, S.; Rosenberg, E. I.; Yi, J.; Davier, M.; Crosdidier, C.; Hoecker, A.; Laplace, S.; Le Diberder, F.; Lepeltier, V.; Lutz, A. M.; Petersen, T. C.; Plaszczynski, S.; Schune, M. H.; Tantot, L.; Wormser, G.; Brigljevic, V.; Cheng, C. H.; Lange, D. J.; Wright, D. M.; Bevan, A. J.; Coleman, J. P.; Fry, J. R.; Gabathuler, E.; Gamet, R.; Kay, M.; Parry, R. J.; Payne, D. J.; Sloane, R. J.; Touramanis, C.; Back, J. J.; Harrison, P. F.;

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S. J.; von Wimmersperg-Toeller, J. H.; Wu, J.; Wu, S. L.; Yu, Z.; Neal, H.
CS Laboratoire de Physique des Particules, Annecy-te-Vieux, F-74941, Fr.
SO Los Alamos National Laboratory, Preprint Archive, High Energy Physics--Experiment (2003) 1-22, arXiv:hep-ex/0307087, 30 Jul 2003
CODEN: LNHEFS
URL: http://xxx.lanl.gov/pdf/hep-ex/0307087
PB Los Alamos National Laboratory
DT Preprint
LA English
AB We present preliminary measurements of branching fractions and CP-violating charge asymmetries in B-meson decays to ρπ. The data sample comprises 89 million Y(4S) → B.hivin.B decays collected with the BABAR detector at the PEP-II asym.-energy B Factory at SLAC. We find the charge-averaged branching fractions .SCRIPTB.(B+→ρ+π0) = (11.0±1.9(stat.)±1.9(syst.)) + 10-6 and .SCRIPTB.(B+→ρ0π+) = (9.3±1.0(stat.).+- .0.8(syst.)) + 10-6; we set a 90% confidence-level upper limit of .SCRIPTB.(B0→ρ0π0) < 2.5 + 10-6. We measure the CP-violating charge asymmetries Aρ+π0CP = 0.23±0.16(stat.).+- .0.06(syst.) and Aρ0π+ = -0.17±10.11(stat.)±0.02(syst.).
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AN 2003:509004 HCAPLUS
DN 139:203228
TI Self-Assembled Gold Nanoparticle/Alkanedithiol Films: Preparation, Electron Microscopy, XPS-Analysis, **Charge** Transport, and Vapor-Sensing Properties
AU Joseph, Yvonne; Besnard, Isabelle; Rosenberger, Miriam; Guse, Berit; Nothofer, Heinz-Georg; **Wessels, Jurina M.**; Wild, Ute; Knop-Gericke, Axel; Su, Dangsheng; Schloegl, Robert; **Yasuda, Akio**; Vossmeyer, Tobias
CS Materials Science Laboratories, Sony International (Europe) GmbH, Stuttgart, D-70327, Germany
SO Journal of Physical Chemistry B (2003), 107(30), 7406-7413
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PB American Chemical Society
DT Journal
LA English
AB Gold nanoparticle/alkanedithiol films were prepared via layer-by-layer self-assembly. For the assembly process, dodecylamine-stabilized Au nanoparticles with an average size of 4 nm and alkanedithiols with different alkylene chain lengths (C6, C9, C12, C16) were used. The thickness of the films was determined by AFM and ranged between 26 and 34 nm. FE-SEM and TEM images indicate that the particle size within the film materials was similar to that of the dodecylamine-stabilized particles used for film preparation The composition of the films was analyzed by XPS. The absence of the nitrogen signal indicated that the dodecylamine ligands were quant. exchanged by alkanedithiol mols. during film assembly. Two sulfur signals were observed, which could be assigned to sulfur bound to gold (S-Au) and to free thiol groups (S-H). As indicated by the relative signal intensities, about 60% of the alkanedithiol mols. were bound with both ends to the nanoparticles, whereas 40% were bound with only one thiol group. The C/S ratio was in good agreement with the stoichiometry of the alkanedithiol mols. All films showed linear current-voltage characteristics. Conductivity measurements at variable temperature were consistent with an Arrhenius-type

activation of charge transport. Using an activated tunneling model for describing the charge transport properties, we obtained an electron tunneling decay constant of βN = 0.61 or 0.71, depending on the method used for data anal. When the films were dosed with vapors of toluene and tetrachloroethylene, the resistance of the films increased reversibly. This response increased exponentially with increasing length of the alkanedithiol mols. The chemical selectivity of the films corresponded essentially to the solubility properties of the alkanedithiol mols.

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AN 2003:263399 HCAPLUS

DN 138:261537

TI Measurements of the branching fractions and **charge** asymmetries of charmless three-body **charged** B decays

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AB We present measurements of branching fractions and charge asymmetries for charged B-meson decays to three-body final states of charged pions and kaons. The anal. uses 81.8 fb-1 of data collected at the Y(4S) resonance with the BABAR detector at the SLAC PEP-II asym. B Factory. No assumptions were made about intermediate resonances, and open charm and charmonium contributions were subtracted. We measured the branching fractions B(B+ → π+π-π+) = (10.9 ± 3.3 ± 1.6) x 10-6, B(B+ → K+π-π+) = (59.1 ± 3.8 ± 3.2) x 10-6 and B(B+ → K+K-K+) = (29.6 ± 2.1 ± 1.6) x 10-6, where the first uncertainty is statistical and the second uncertainty is systematic. We also measured the charge asymmetries A(B+ → π+π-π+) = -0.39 ± 0.33 ± 0.12, A(B+ → K+π-π+) = 0.01 ± 0.07 ± 0.03 and A(B+ → K+K-K+) = 0.02 ± 0.07 ± 0.03. We set the 90% confidence upper limits B(B+ → K+K-π+) < 6.3 + 10-6, B(B+ → K-π+π+) < 1.8 + 10-6 and B(B+ → K+K+π-) < 1.3 + 10-6.

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TI Measurements of the branching fractions of **charged** B decays to K+π-π+ final states

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AB We present preliminary results of searches for exclusive charged B-meson decays to K±π.-+.π± from 61.6 million B.hivin.B pairs collected at the Y(4S) resonance with the BABAR detector at the SLAC PEP-II asym. B Factory. The Dalitz plot was divided into eight regions and, using a maximum-likelihood fit, we measured statistically significant yields in all regions. We interpreted the results as the following branching fractions averaged over charged-conjugate states: B(B+ → K*0(892)π+, K*0 → K+π-) = (10.3 ± 1.2+1.0-2.7) + 10-6, B(B+ → f0(980)K+, f0 → π+π-) = (9.2 ± 1.2+2.1-2.6) + 10-6, B(B+ → χc0K+, χc0 → π+π-) = (1.46 ± 0.35 ± 0.12) + 10-6 and B(B+ → .hivin.D0π+, .hivin.D0 → K+π-) = (184.6 ± 3.2 ± 9.7) + 10-6. The first uncertainty is statistical and the second is systematic and includes resonance model and interference uncertainties. We give 90% confidence-level upper limits on the branching fractions of the following channels: B(B+ → ρ0(770)K+) < 6.2 + 10-6 and B(B+ → K+π-π+ non-resonant) < 17 + 10-6.

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DN 137:69064
TI Measurements of charmless two-body **charged** B decays with neutral pions and kaons
AU Aubert, B.; Boutigny, D.; Gaillard, J.-M.; Hicheur, A.; Karyotakis, Y.; Lees, J. P.; Robbe, P.; Tisserand, V.; Zghiche, A.; Palano, A.; Pompili, A.; Chen, G. P.; Chen, J. C.; Qi, N. D.; Rong, G.; Wang, P.; Zhu, Y. S.; Eigen, G.; Ofte, I.; Stugu, B.; **Abrams, G. S.**; Borgland, A. W.; Breon, A. B.; Brown, D. N.; Button-Shafer, J.; Cahn, R. N.; Charles, E.; Gill, M. S.; Gritsan, A. V.; Groysman, Y.; Jacobsen, R. G.; Kadel, R. W.; Kadyk, J.; Kerth, L. T.; Kolomensky, Yu. G.; Kral, J. F.; LeClerc, C.; Levi, M. E.; Lynch, G.; Mir, L. M.; Oddone, P. J.; Orimoto, T.; Pripstein, M.; Roe, N. A.; Romosan, A.; Ronan, M. T.; Shelkov, V. G.; Telnov, A. V.; Wenzel, W. A.; Harrison, T. J.; Hawkes, C. M.; Knowles, D. J.; O'Neale, S. W.; Penny, R. C.; Watson, A. T.; Watson, N. K.; Deppermann, T.; Goetzen, K.; Koch, H.; Lewandowski, B.; Peters, K.; Schmuecker, H.; Steinke, M.; Barlow, N. R.; Bhimji, W.; Boyd, J. T.; Chevalier, N.; Clark, P. J.; Cottingham, W. N.; Foster, B.; Mackay, C.; Wilson, F. F.; Abe, K.; Hearty, C.; Mattison, T. S.; McKenna, J. A.; Thiessen, D.; Jolly, S.; McKemey, A. K.; Blinov, V. E.; Bukin, A. D.; Buzykaev, A. R.; Golubev, V. B.; Ivanchenko, V. N.; Korol, A. A.; Kravchenko, E. A.; Onuchin, A. P.; Serednyakov, S. I.; Skovpen, Yu. I.; Yushkov, A. N.; Best, D.; Chao, M.; Kirkby, D.; Lankford, A. J.; Mandelkern, M.; McMahon, S.; Stoker, D. P.; Arisaka, K.; Buchanan, C.; Chun, S.; MacFarlane, D. B.; Prell, S.; Rahatlou, Sh.; Raven, G.; Sharma, V.; Berryhill, J. W.; Campagnari, C.; Dahmes, B.; Hart, P. A.; Kuznetsova, N.; Levy, S. L.; Long, O.; Lu, A.; Mazur, M. A.; Richman, J. D.; Verkerke, W.; Beringer, J.; Eisner, A. M.; Grothe, M.; Heusch, C. A.; Lockman, W. S.; Pulliam, T.; Schalk, T.; Schmitz, R. E.; Schumm, B. A.; Seidenh, A.; Turri, M.; Walkowiak, W.; Williams, D. C.; Wilson, M. G.; Chen, E.; Dubois-Felsmann, G. P.; Dvoretskii, A.; Hitlin, D. G.; Metzler, S.; Oyang, J.; Porter, F. C.; Ryd, A.; Samuel, A.; Yang, S.; Zhu, R. Y.; Jayatilleke, S.; Mancinelli, G.; Meadows, B. T.; Sokoloff, M. D.; Barillari, T.; Bloom, P.; Ford, W. T.; Nauenberg, U.; Olivas, A.; Rankin, P.; Roy, J.; Smith, J. G.; van Hoek, W. C.; Zhang, L.; Blouw, J.; Harton, J. L.; Krishnamurthy, M.; Soffer, A.; Toki, W. H.; Wilson, R. J.; Zhang, J.; Brandt, T.; Brose, J.; Colberg, T.; Dickopp, M.; Dubitzky, R. S.; Hauke, A.; Maly, E.; Mueller-Pfefferkorn, R.; Otto, S.; Schubert, K. R.; Schwierz, R.; Spaan, B.; Wilden, L.; Bernard, D.; Bonneaud, G. R.; Brochard, F.; Cohen-Tanugi, J.; Ferrag, S.; T'Jampens, S.; Thiebaux, Ch.; Vasileidis, G.; Verderi, M.; Anjomshoaa, A.; Bernet, R.; Khan, A.; Lavin, D.; Muheim, F.; Playfer, S.; Swain, J. E.; Tinslay, J.; Falbo, M.; Borean, C.; Bozzi, C.; Piemontese, L.; Treadwel, E.; Anulli, F.; Baldini-Ferroli, R.; Calcaterra, A.; de Sangro, R.; Falciai, D.; Finocchiaro, G.; Patteri, P.; Peruzzi, I. M.; Piccolo, M.; Xie, Y.; Zallo, A.; Bagnasco, S.; Buzzo, A.; Contri, R.; Crosetti, G.; Lo Vetere, M.; Macri, M.; Monge, M. R.; Passaggio, S.; Pastore, F. C.; Patrignani, C.; Robutti, E.; Santroni, A.; Tosi, S.; Morii, M.; Bartoldus, R.; Hamilton, R.; Mallik, U.; Cochran, J.; Crawley, H. B.; Lamsa, J.; Meyer, W. T.; Rosenberg, E. I.; Yi, J.; Hoecker, A.; Lacker, H. M.; Laplace, S.; Le Diberder, F.; Grosdidier, G.; Lepeltier, V.; Lutz, A. M.; Plasczczynski, S.; Schune, M. H.; Trincaz-Duvoid, S.; Wormser, G.; Bionta, R. M.; Brigljevic, V.; Lange, D. J.; Mugge, M.; van Bibber, K.; Wright, D. M.; Bevan, A. J.; Fry, J. R.; Gabathuler, E.; Gamet, R.; George, M.; Kay, M.; Payne, D. J.; Sloane, R. J.; Touramanis, C.; Aspinwall, M. L.; Bowerman, D. A.; Dauncey, P. D.; Egede, U.; Eschrich, I.; Morton, G. W.; Nash, J. A.; Sanders, P.; Smith, D.; Taylor, G. P.; Back, J. J.; Bellodi,

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CS Laboratoire de Physique des Particules, Annecy-le-Vieux, F-74941, Fr.

SO Los Alamos National Laboratory, Preprint Archive, High Energy Physics--Experiment (2002) 1-15, arXiv:hep-ex/0206053, 21 Jun 2002

CODEN: LNHEFS
URL: http://xxx.lanl.gov/pdf/hep-ex/0206053
PB Los Alamos National Laboratory
DT Preprint
LA English
AB We present preliminary results of the analyses of B → hπ0 and B → hK0 decays (with h = π±, K±) from a sample of approx. 60 million B.hivin.B pairs collected by the BABAR detector at the PEP-II asym.-energy B Factory at SLAC. We find evidence for a signal in B+ → π+π0, and we measure the branching fraction .SCRIPTB.(B+ → π+π0) = (4.1+1.1-1.0 ± 0.8) + 10-6. We also measure the following branching ratios and charge asymmetries: .SCRIPTB.(B+ → K+π0) = (11.1_1.3-1.2 ± 1.0) + 10-6, .SCRIPTB.(B+ → π+K0) = (17.5+1.8-1.7 ± 1.3) + 10-6, .SCRIPTB.(B+ → K_.hivin.K0) < 1.3 + 10-6 (90% CL), .SCRIPTA.Π+π0 = −0.02+0.27-0.26 ± 0.10, .SCRIPTA.K+π0 = 0.00 ± 0.11 ± 0.02, .SCRIPTA.π+K0 = −0.17 ± 0.10 ± 0.02, where the errors are statistical and systematic, resp.
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 10 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:462494 HCAPLUS
DN 137:40117
TI Tuned multifunctional **linker** molecules for electronic **charge** transport through organic-inorganic composite structures and use thereof
IN **Ford, William E.; Wessels, Jurina; Yasuda, Akio**
PA Sony International (Europe) G.m.b.H., Germany
SO Eur. Pat. Appl., 36 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1215205	A1	20020619	EP 2000-126968	20001208
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002127756	A1	20020912	US 2001-6636	20011206
JP 2002265433	A2	20020918	JP 2001-374916	20011207
PRAI EP 2000-126968	A	20001208		

AB The problem underlying the present invention is to provide multifunctional linker mols. for tuning the conductivity in nanoparticle-linker assemblies which can be used in the formation of electronic networks and circuits and thin films of nanoparticles. The problem is solved according to the invention by providing a multifunctional linker mol. of the general structure CON1-FUNC1-X-FUNC2-CON2 in which X is the central body of the mol., FUNC1 and FUNC2 independently of each other are mol. groups introducing a dipole moment and/or capable of forming intermol. and/or intramol. H bonding networks, and CON1 and CON2 independently of each other are mol. groups binding to nanostructured units comprising metal and semiconductor materials.
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 11 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:450251 HCAPLUS
DN 137:17455
TI **Linker** molecules for selective metalization of nucleic acids and their uses
IN **Ford, William; Wessels, Jurina; Yasuda, Akio**
PA Germany
SO U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002072069	A1	20020613	US 2001-8179	20011207
	EP 1215199	A1	20020619	EP 2000-126966	20001208
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2003026643	A2	20030129	JP 2001-371836	20011205
	CN 1357536	A	20020710	CN 2001-143128	20011210
PRAI	EP 2000-126966	A	20001208		

AB The invention concerns to linker mols. comprising one or more nucleic acid binding group and one or more nanoparticle binding group which are connected covalently by a spacer group. The problem underlying the present invention is to provide methods for the controlled and selective metalization of nucleic acids, the production of nanowires which may be used, e.g., in the formation of electronic networks and circuits allowing a high d. arrangement, and the components of devices that may be incorporated in such networks and circuits. This problem is solved by a linker mol. which comprises one or more nucleic acid binding group(s) and one or more nanoparticle binding group(s) which are connected covalently by a spacer group. Such linkers can be used for the manufacture of nucleic acid/linker conjugates, nanoparticle/linker conjugates, and nanoparticle/linker/nucleic acid composites and further nanowires, electronic networks, electronic circuits and junctions comprising said nanowires.

L29 ANSWER 12 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:415798 HCAPLUS
DN 137:99821
TI Study of B± → J/ψπ± and B± → J/ψK± decays: Measurement of the ratio of branching fractions and search for direct CP-violating **charge** asymmetries
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AB We have studied the B± → J/ψπ± and B± → J/ψK± decays using a 20.7 fb-1 data set collected with the BABAR detector. We observe a signal of 51±10 B± → J/ψπ± events and determine the ratio B(B± → J/ψπ±)/B(B± → J/ψK±) to be [3.91±0.78(stat)±0.19(syst)]%. The CP-violating charge asymmetries for the B± →J/ψπ± and B± → J/ψK± decays are determined to be Aπ=0.01.+-.0.22(stat)±0.01(syst) and AK=0.003±0.030(stat)±0.004(syst).

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TI Measurement of B → K*γ branching fractions and **charge** asymmetries

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URL: http://xxx.lanl.gov/pdf/hep-ex/0110065
PB Los Alamos National Laboratory
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AB The branching fractions of the exclusive decays B0 → K*0γ and B+ → K*+γ are measured from a sample of (22.74 ± 0.36) x 106 B.hivin.B decays collected with the BABAR detector at the PEP II asym. e+e- collider. We find B(B0 → K*0γ) = (4.23 ± 0.40(stat.) ± 0.22(sys.)) x 10-5, B(B+ → K*+γ) (3.83 → 0.62(stat.) ±0.22(sys.)) x 10-5 and constrain the CP-violating charge asymmetry to be -0.0170 < ACP(B → K*γ) < 0.082 at 90% C.L.
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TI Measurement of Branching Fractions and Search for CP-Violating **Charge** Asymmetries in Charmless Two-Body B Decays into Pions and Kaons
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AB We present measurements, based on a sample of approx. 23+106 B-B pairs, of the branching fractions and a search for CP-violating charge asymmetries in charmless hadronic decays of B mesons into two-body final states of kaons and pions. We find the branching fractions B(B0 → π+π−)=(4.1±1.0 ±0.7)+10−6, B(B0 → K+π−)=(16.7±1.6±1.3)+ 10−6, B(B+ → K+π0)=(10.8+2.1−1.9± 1.0)+10−6, B(B+ → K0π+)=(18.2+3.3−3.0± 2.0)+10−6, B(B0 → K0π0)=(8.2+3.1−2.7± 1.2)+10−6. We also report 90% confidence level upper limits for B meson decays to the π+π0, K+K−, and K0K+ final states. In addition, charge asymmetries have been found to be consistent with zero, where the statistical precision is in the range of ±0.10 to ±0.18, depending on the decay mode.

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TI Measurement of branching fractions and search for CP-violating **charge** asymmetries in charmless two-body B decays into pions and kaons

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SO Los Alamos National Laboratory, Preprint Archive, High Energy Physics--Experiment (2001) 1-8, arXiv:hep-ex/0105061, 21 May 2001
CODEN: LNHEFS
URL: http://xxx.lanl.gov/pdf/hep-ex/0105061

PB Los Alamos National Laboratory

DT Preprint

LA English

AB We present measurements of the branching fractions and a search for CP-violating charge asymmetries in charmless hadronic decays of B mesons into two-body final states of kaons and pions. The results are based on a data sample of approx. 23 million B.hivin.B pairs collected by the BABAR detector at the PEP-II asym. B Factory at SLAC. We find the following branching fractions: Br(B0 → π+π−) = (4.1 ± 1.0 ± 0.7) + 10−6, Br(B0 → K+π−) = (16.7 ± 1.6 ± 1.3) + 10−6, Br(B+ → K+π0) = (10.8+2.1−1.9 ± 1.0) + 10−6, Br(B+ → K0π+) = (18.2+3.3−3.0 ± 2.0) + 10−6, Br(B0 → K0π0) = (8.2+3.1−2.7 ± 1.2) + 10−6. We also report the 90% confidence level upper limits Br(B0 → K+K−) < 2.5 + 10−6, Br(B+ → π+π0) < 9.6 + 10−6, and Br(B+ → .hivin.K0K+) < 2.4 + 10−6. In addition, charge asymmetries have been measured and found to be consistent with zero, where the statistical precision is in the range of ±0.10 to ±0.18, depending on the decay mode.

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 16 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:216870 HCAPLUS

DN 134:272399

TI Measurement of the Relative Branching Fraction of Y(4S) to **Charged** and Neutral B-Meson Pairs

AU Alexander, J. P.; Baker, R.; Bebek, C.; Berger, B. E.; Berkelman, K.; Blanc, F.; Boisvert, V.; Cassel, D. G.; Dickson, M.; Drell, P. S.; Ecklund, K. M.; Ehrlich, R.; Foland, A. D.; Gaidarev, P.; Gibbons, L.; Gittelman, B.; Gray, S. W.; Hartill, D. L.; Heltsley, B. K.; Hopman, P. I.; Jones, C. D.; Kreinick, D. L.; Lohner, M.; Magerkurth, A.; Meyer, T. O.; Mistry, N. B.; Nordberg, E.; Patterson, J. R.; Peterson, D.; Riley, D.; Thayer, J. G.; Thies, P. G.; Valant-Spaight, B.; Warburton, A.; Avery, P.; Prescott, C.; Rubiera, A. I.; Yelton, J.; Zheng, J.; Brandenburg, G.; Ershov, A.; Gao, Y. S.; Kim, D. Y.-J.; Wilson, R.; Browder, T. E.; Li, Y.; Rodriguez, J. L.; Yamamoto, H.; Bergfeld, T.; Eisenstein, B. I.; Ernst, J.; Gladding, G. E.; Gollin, G. D.; Hans, R. M.; Johnson, E.; Karliner, I.; Marsh, M. A.; Palmer, M.; Plager, C.; **Sedlack**, **C**.; Selen, M.; Thaler, J. J.; Williams, J.; Edwards, K. W.; Janicek, R.; Patel, P. M.; Sadoff, A. J.; Ammar, R.; Bean, A.; Besson, D.; Davis, R.; Kwak, N.; Zhao, X.; Anderson, S.; Frolov, V. V.; Kubota, Y.; Lee, S. J.; Mahapatra, R.; O'Neill, J. J.; Poling, R.; Riehle, T.; Smith, A.; Urheim, J.; Ahmed, S.; Alam, M. S.; Athar, S. B.; Jian, L.; Ling, L.; Mahmood, A. H.; Saleem, M.; Timm, S.; Wappler, F.; Anastassov, A.; Duboscq, J. E.; Eckhart, E.; Gan, K. K.; Gwon, C.; Hart, T.; Honscheid, K.; Hufnagel, D.; Kagan, H.; Kass, R.; Pedlar, T. K.; Schwarthoff, H.; Thayer, J. B.; von Toerne, E.; Zoeller, M. M.; Richichi, S. J.; Severini, H.; Skubic, P.; Undrus, A.;

Chen, S.; Fast, J.; Hinson, J. W.; Lee, J.; Menon, N.; Miller, D. H.; Shibata, E. I.; Shipsey, I. P. J.; Pavlunin, V.; Cronin-Hennessy, D.; Kwon, Y.; Lyon, A. L.; Thorndike, E. H.; Jessop, C. P.; Marsiske, H.; Perl, M. L.; Savinov, V.; Ugolini, D.; Zhou, X.; Coan, T. E.; Fadeyev, V.; Maravin, Y.; Narsky, I.; Stroynowski, R.; Ye, J.; Wlodek, T.; Artuso, M.; Ayad, R.; Boulahouache, C.; Bukin, K.; Dambasuren, E.; Karamov, S.; Majumder, G.; Moneti, G. C.; Mountain, R.; Schuh, S.; Skwarnicki, T.; Stone, S.; Viehhauser, G.; Wang, J. C.; Wolf, A.; Wu, J.; Kopp, S.; Csorna, S. E.; Danko, I.; McLean, K. W.; Marka, Sz.; Xu, Z.; Godang, R.; Kinoshita, K.; Lai, I. C.; Schrenk, S.; Bonvicini, G.; Cinabro, D.; McGee, S.; Perera, L. P.; Zhou, G. J.; Lipeles, E.; Schmidtler, M.; Shapiro, A.; Sun, W. M.; Weinstein, A. J.; Wurthwein, F.; Jaffe, D. E.; Masek, G.; Paar, H. P.; Potter, E. M.; Prell, S.; Sharma, V.; Asner, D. M.; Eppich, A.; Hill, T. S.; Morrison, R. J.; Briere, R. A.; Behrens, B. H.; Ford, W. T.; Gritsan, A.; Roy, J.; Smith, J. G.

CS Cornell University, Ithaca, NY, 14853, USA

SO Physical Review Letters (2001), 86(13), 2737-2741
CODEN: PRLTAO; ISSN: 0031-9007

PB American Physical Society

DT Journal

LA English

AB We analyze 9.7+106 BB pairs recorded with the CLEO detector to determine the production ratio of charged to neutral B-meson pairs produced at the Y(4S) resonance. We measure the rates for B0 J/ψK(*)0 and B+ J/ψK(*)+ decays and use the world-average B-meson lifetime ratio to extract the relative widths f+-/f00= Γ(Y(4S) B+B-)/ Γ(Y (4S) B0B 0)=1.04± 0.07(stat)±0.04(syst). With the assumption that f+-+f00=1, we obtain f00=0.49±0.02(stat)± 0.01(syst) and f+-=0.51±0.02(stat)± 0.01(syst). This production ratio and its uncertainty apply to all exclusive B-meson branching fractions measured at the Y(4S) resonance.

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L29 ANSWER 17 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:518678 HCAPLUS

DN 133:228878

TI Measurement of **charge** asymmetries in charmless hadronic B meson decays

AU Chen, S.; Fast, J.; Hinson, J. W.; Lee, J.; Menon, N.; Miller, D. H.; Shibata, E. I.; Shipsey, I. P. J.; Pavunin, V.; Cronin-Hennessy, D.; Kwon, Y.; Lyon, A. L.; Thorndike, E. H.; Jessop, C. P.; Marsiske, H.; Perl, M. L.; Savinov, V.; Ugolini, D.; Zhou, X.; Coan, T. E.; Fadeyev, V.; Maravin, Y.; Narsky, I.; Stroynowski, R.; Ye, J.; Wlodek, T.; Artuso, M.; Ayad, R.; Boulahouache, C.; Bukin, K.; Dambasuren, E.; Karamnov, S.; Kopp, S.; Majumder, G.; Moneti, G. C.; Mountain, R.; Schuh, S.; Skwarnicki, T.; Stone, S.; Viehhauser, G.; Wang, J. C.; Wolf, A.; Wu, J.; Csorna, S. E.; Danko, I.; McLean, K. W.; Marka, Sz.; Xu, Z.; Godang, R.; Kinoshita, K.; Lai, I. C.; Schrenk, S.; Bonvicini, G.; Cinabro, D.; Perera, L. P.; Zhou, G. J.; Eigen, G.; Lipeles, E.; Schmidtler, M.; Shapiro, A.; Sun, W. M.; Weinstein, A. J.; Wurthwein, F.; Jaffe, D. E.; Masek, G.; Paar, H. P.; Potter, E. M.; Prell, S.; Sharma, V.; Asner, D. M.; Eppich, A.; Gronberg, J.; Hill, T. S.; Lange, D. J.; Morrison, R. J.; Nelson, H. N.; Briere, R. A.; Behrens, B. H.; **Ford, W. T.**; Gristsan, A.; Roy, J.; Smith, J. G.; Alexander, J. P.; Baker, R.; Bebek, C.; Berger, B. E.; Berkelman, K.; Blanc, F.; Boisvert, V.; Cassel, D. G.; Dickson, M.; Drell, P. S.; Ecklund, K. M.; Ehrlich, R.; Foland, A. D.; Gaidarev, P.; Gibbons, L.; Gittelman, B.; Gray, S. W.; Hartill, D. L.; Heltsley, B. K.; Hopman, P.

I.; Jones, C. D.; Kreinick, D. L.; Lohner, M.; Magerkurth, A.; Meyer, T. O.; Mistry, N. B.; Ng, C. R.; Nordberg, E.; Patterson, J. R.; Peterson, D.; Riley, D.; Thayer, J. G.; Thies, P. G.; Valant-Spaight, B.; Warburton, A.; Avery, P.; Prescott, C.; Rubiera, A. I.; Yelton, J.; Zheng, J.; Bradenburg, G.; Ershov, A.; Gao, Y. S.; Kim, D. Y.-J.; Wilson, R.; Browder, T. E.; Li, Y.; Rodriguez, J. L.; Yamamoto, H.; Bergfeld, T.; Eisenstein, B. I.; Ernst, J.; Gladding, G. E.; Gollin, G. D.; Hans, R. M.; Johnson, E.; Karliner, I.; Marsh, M. A.; Palmer, M.; Plager, C.; Sedlack, C.; Selen, M.; Thaler, J. J.; Williams, J.; Edwards, K. W.; Janicek, R.; Patel, P. M.; Sadoff, A. J.; Ammar, R.; Bean, A.; Besson, D.; Davis, R.; Kravchenko, I.; Kwak, N.; Zhao, X.; Anderson, S.; Frolov, V. V.; Kubota, Y.; Lee, S. J.; Mahapatra, R.; O'Neill, J. J.; Poling, R.; Riehle, T.; Smith, A.; Urheim, J.; Ahmed, S.; Alam, M. S.; Athar, S. B.; Jian, L.; Ling, L.; Mahmood, A. H.; Saleem, M.; Timm, S.; Wappler, F.; Anastassov, A.; Duboscq, J. E.; Gan, K. K.; Gwon, C.; Hart, T.; Honscheid, K.; Hufnagel, D.; Kagan, H.; Kass, R.; Lorenc, J.; Pedlar, T. K.; Schwarthoff, H.; Von Toerne, E.; Zoeller, M. M.; Richichi, S. J.; Severini, H.; Skubic, P.; Undrus, A.

CS Purdue Univ., West Lafayette, IN, 47907, USA

SO Los Alamos National Laboratory, Preprint Archive, High Energy Physics--Experiment (2000) 1-10, arXiv:hep-ex/0001009, 31 Jan 2000
CODEN: LNHEFS
URL: http://xxx.lanl.gov/pdf/hep-ex/0001009

PB Los Alamos National Laboratory

DT Preprint

LA English

AB We search for CP-violating asymmetries (ACP) in the B meson decays to K±π.-+., K±π0, KS0π±, K±η', and ωπ±.
Using 9.66 million Y(4S) decays collected with the CLEO detector, the statistical precision on ACP is in the range of ±0.12 to ±0.25 depending on decay mode. While CP-violating asymmetries of up to ±0.5 are possible within the Standard Model, the measured asymmetries are consistent with zero in all five decay modes studied.

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 18 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:483646 HCAPLUS

DN 133:214271

TI Measurement of **Charge** Asymmetries in Charmless Hadronic B Meson Decays

AU Chen, S.; Fast, J.; Hinson, J. W.; Lee, J.; Menon, N.; Miller, D. H.; Shibata, E. I.; Shipsey, I. P. J.; Pavlunin, V.; Cronin-Hennessy, D.; Kwon, Y.; Lyon, A. L.; Thorndike, E. H.; Jessop, C. P.; Marsiske, H.; Perl, M. L.; Savinov, V.; Ugolini, D.; Zhou, X.; Coan, T. E.; Fadeyev, V.; Maravin, Y.; Narsky, I.; Stroynowski, R.; Ye, J.; Wlodek, T.; Artuso, M.; Ayad, R.; Boulahouache, C.; Bukin, K.; Dambasuren, E.; Karamnov, S.; Kopp, S.; Majumder, G.; Moneti, G. C.; Mountain, R.; Schuh, S.; Skwarnicki, T.; Stone, S.; Viehhauser, G.; Wang, J. C.; Wolf, A.; Wu, J.; Csorna, S. E.; Danko, I.; McLean, K. W.; Marka, Sz.; Xu, Z.; Godang, R.; Kinoshita, K.; Lai, I. C.; Schrenk, S.; Bonvicini, G.; Cinabro, D.; Perera, L. P.; Zhou, G. J.; Eigen, G.; Lipeles, E.; Schmidtler, M.; Shapiro, A.; Sun, W. M.; Weinstein, A. J.; Wurthwein, F.; Jaffe, D. E.; Masek, G.; Paar, H. P.; Potter, E. M.; Prell, S.; Sharma, V.; Asner, D. M.; Eppich, A.; Gronberg, J.; Hill, T. S.; Lange, D. J.; Morrison, R. J.; Nelson, H. N.; Briere, R. A.; Behrens, B. H.; **Ford, W. T.**; Gritsan, A.; Roy, J.; Smith, J. G.; Alexander, J. P.; Baker, R.; Bebek, C.; Berger, B. E.; Berkelman, K.; Blanc, F.; Boisvert, V.; Cassel, D. G.; Dickson, M.; Drell, P. S.;

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CS Purdue University, West Lafayette, IN, 47907, USA

SO Physical Review Letters (2000), 85(3), 525-529
CODEN: PRLTAO; ISSN: 0031-9007

PB American Physical Society

DT Journal

LA English

AB We search for CP-violating charge asymmetries (ACP) in the B meson decays to K±π.-+., K±π0, K0Sπ±, K±η', and ωπ±. Using 9.66 million Y(4S) decays collected with the CLEO detector, the statistical precision on ACP is in the range of ±0.12 to ±0.25 depending on decay mode. While CP-violating asymmetries of up to ±0.5 are possible within the standard model, the measured asymmetries are consistent with zero in all five decay modes studied.

RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 19 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:480450 HCAPLUS

DN 133:169229

TI High-p⊥ **charged**-pion production in Pb-Au collisions at 158 AGeV/c

AU Agakichiev, G.; Baur, R.; Braun-Munzinger, P.; Drees, A.; Esumi, S.; Faschingebauer, U.; Fraenkel, Z.; Fuchs, Ch.; Glassel, P.; de los Heros, C. P.; Holl, P.; Jung, Ch.; Lenkeit, B.; Messer, F.; Messer, M.; Panebrattsev, Y.; Pfeiffer, A.; Rak, J.; Ravinovich, I.; Razin, S.; Rehak, P.; Richter, M.; Saveljic, N.; Schukraft, J.; Shimansky, S.; Seipp, W.; Socol, E.; Specht, H. J.; Stachel, J.; Tel-Zur, G.; Tserruya, I.; Ullrich, T.; Voigt, C.; Weber, C.; **Wessels, J. P.**; Wienold, T.; Wurm, J. P.; Yurevich, J. V.

CS JINR, Dubna, Russia

SO Los Alamos National Laboratory, Preprint Archive, High Energy Physics--Experiment (2000) 1-11, arXiv:hep-ex/0003012, 31 Mar 2000
CODEN: LNHEFS
URL: http://xxx.lanl.gov/pdf/hep-ex/0003012

PB Los Alamos National Laboratory

DT Preprint

LA English

AB The CERES/NA45 experiment at the CERN SPS measured transverse momentum spectra of charged-pions in the range 1 < p⊥ < 4 GeV/c near mid-rapidity (2.1 < y < 2.6) in 158 AGeV/c Pb-Au collisions. The invariant transverse momentum spectra are exponential over the entire observed range. The average inverse slope is 245 ± 5 MeV/c, it shows a 2.4% increase with centrality of the collision over the 35% most central fraction of the cross section. The π^-/π^+ ratio is constant at 1.028 ± 0.005 over the p⊥ interval measured.

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 20 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:195759 HCAPLUS
DN 132:213579
TI **Charged** track multiplicity in B meson decay
AU Brandenburg, G.; Ershov, A.; Gao, Y. S.; Kim, D. Y.-J.; Wilson, R.; Browder, T. E.; Li, Y.; Rodriguez, J. L.; Yamamoto, H.; Bergfeld, T.; Eisenstein, B. I.; Ernst, J.; Gladding, G. E.; Gollin, G. D.; Hans, R. M.; Johnson, E.; Karliner, I.; Marsh, M. A.; Palmer, M.; Plager, C.; Sedlack, C.; Selen, M.; Thaler, J. J.; Williams, J.; Edwards, K. W.; Janicek, R.; Patel, P. M.; **Sadoff, A. J.**; Ammar, R.; Baringer, P.; Bean, A.; Besson, D.; Davis, R.; Kotov, S.; Kravchenko, I.; Kwak, N.; Zhao, X.; Anderson, S.; Frolov, V. V.; Kubota, Y.; Lee, S. J.; Mahapatra, R.; O'Neill, J. J.; Poling, R.; Riehle, T.; Smith, A.; Ahmed, S.; Alam, M. S.; Athar, S. B.; Jian, L.; Ling, L.; Mahmood, A. H.; Saleem, M.; Timm, S.; Wappler, F.; Anastassov, A.; Duboscq, J. E.; Gan, K. K.; Gwon, C.; Hart, T.; Honscheid, K.; Kagan, H.; Kass, R.; Lorenc, J.; Schwarthoff, H.; Spencer, M. B.; von Toerne, E.; Zoeller, M. M.; Richichi, S. J.; Severini, H.; Skubic, P.; Undrus, A.; Bishai, M.; Chen, S.; Fast, J.; Hinson, J. W.; Lee, J.; Menon, N.; Miller, D. H.; Shibata, E. I.; Shipsey, I. P. J.; Kwon, Y.; Lyon, A. L.; Thorndike, E. H.; Jessop, C. P.; Lingel, K.; Marsiske, H.; Perl, M. L.; Savinov, V.; Ugolini, D.; Zhou, X.; Coan, T. E.; Fadeyev, V.; Korolkov, I.; Maravin, Y.; Narsky, I.; Stroynowski, R.; Ye, J.; Wlodek, T.; Artuso, M.; Ayad, R.; Dambasuren, E.; Kopp, S.; Majumder, G.; Moneti, G. C.; Mountain, R.; Schuh, S.; Skwarnicki, T.; Stone, S.; Titov, A.; Viehhauser, G.; Wang, J. C.; Wolf, A.; Wu, J.; Csorna, S. E.; McLean, K. W.; Marka, S.; Xu, Z.; Godang, R.; Kinoshita, K.; Lai, I. C.; Pomianowskie, P.; Schrenk, S.; Bonvicini, G.; Cinabro, D.; Greene, R.; Perera, L. P.; Zhou, G. J.; Chan, S.; Eigen, G.; Lipeles, E.; Schmidtler, M.; Shapiro, A.; Sun, W. M.; Urheim, J.; Weinstein, A. J.; Wurthwein, F.; Jaffe, D. E.; Masek, G.; Paar, H. P.; Potter, E. M.; Prell, S.; Sharma, V.; Asner, D. M.; Eppich, A.; Gronberg, J.; Hill, T. S.; Lange, D. J.; Morrison, R. J.; Nelson, T. K.; Richman, J. D.; Roberts, D.; Briere, R. A.; Behrens, B. H.; Ford, W. T.; Gritsan, A.; Krieg, H.; Roy, J.; Smith, J. G.; Alexander, J. P.; Baker, R.; Bebek, C.; Berger, B. E.; Berkelman, K.; Blanc, F.; Boisvert, V.; Cassel, D. G.; Dickson, M.; von Dombrowski, S.; Drell, P. S.; Ecklund, K. M.; Ehrlich, R.; Foland, A. D.; Gaidarev, P.; Galik, R. S.; Gibbons, L.; Gittelman, B.; Gray, S. W.; Hartill, D. L.; Heltsley, B. K.; Hopman, P. I.; Jones, C. D.; Kreinick, D. L.; Lee, T.; Liu, Y.; Meyer, T. O.; Mistry, N. B.; Ng, C. R.; Nordberg, E.; Patterson, J. R.; Peterson, D.; Riley, D.; Thayer, J. G.; Thies, P. G.; Valant-Spaight, B.; Warburton, A.; Avery, P.; Lohner, M.; Prescott, C.; Rubiera, A. I.; Yelton, J.; Zheng, J.
CS Harvard University, Cambridge, MA, 02138, USA
SO Physical Review D: Particles and Fields (2000), 61(7), 072002/1-072002/6
CODEN: PRVDAQ; ISSN: 0556-2821
PB American Physical Society
DT Journal

LA English
AB We have used the CLEO II detector to study the multiplicity of charged particles in the decays of B mesons produced at the Y(4S) resonance. Using a sample of 1.5+106 B meson pairs, we find the mean inclusive charged particle multiplicity to be 10.71±0.02-0.15+0.21 for the decay of the pair. This corresponds to a mean multiplicity of 5.36±0.01-0.08+0.11 for a single B meson. Using the same data sample, we have also extracted the mean multiplicities in semileptonic and nonleptonic decays. We measure a mean of 7.82±0.05-0.19+0.21 charged particles per B-B decay when both mesons decay semileptonically. When neither B meson decays semileptonically, we measure a mean charged particle multiplicity of 11.62±0.04-0.18+0.24 per B-B pair.
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 21 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:740437 HCAPLUS
DN 132:70351
TI Study of 3-prong hadronic τ decays with **charged** kaons
AU Richichi, S. J.; Severini, H.; Skubic, P.; Undrus, A.; Bishai, M.; Chen, S.; Fast, J.; Hinson, J. W.; Menon, N.; Miller, D. H.; Shibata, E. I.; Shipsey, I. P. J.; Glenn, S.; Kwon, Y.; Lyon, A. L.; Roberts, S.; Thorndike, E. H.; Jessop, C. P.; Lingel, K.; Marsiske, H.; Perl, M. L.; Savinov, V.; Ugolini, D.; Zhou, X.; Coan, T. E.; Fadeyev, V.; Korolkov, I.; Maravin, Y.; Narsky, I.; Stroynowski, R.; Ye, J.; Artuso, M.; Dambasuren, E.; Kopp, S.; Moneti, G. C.; Mountain, R.; Schuh, S.; Skwarnicki, T.; Stone, S.; Titov, A.; Viehhauser, G.; Wang, J. C.; Bartelt, J.; Csorna, S. E.; McLean, K. W.; Marka, S.; Xu, Z.; Godang, R.; Kinoshita, K.; Lai, I. C.; Pomianowski, P.; Schrenk, S.; Bonvicini, G.; Cinabro, D.; Greene, R.; Perera, L. P.; Zhou, G. J.; Chan, S.; Eigen, G.; Lipeles, E.; Miller, J. S.; Schmidtler, M.; Shapiro, A.; Sun, W. M.; Urheim, J.; Weinstein, A. J.; Wurthwein, F.; Bliss, D. W.; Jaffe, D. E.; Masek, G.; Paar, H. P.; Potter, E. M.; Prell, S.; Sharma, V.; Asner, D. M.; Gronberg, J.; Hill, T. S.; Lange, D. J.; Morrison, R. J.; Nelson, H. N.; Nelson, T. K.; Roberts, D.; Behrens, B. H.; **Ford, W. T.**; Gritsan, A.; Krieg, H.; Roy, J.; Smith, J. G.; Alexander, J. P.; Baker, R.; Bebek, C.; Berger, B. E.; Berkelman, K.; Boisvert, V.; Cassel, D. G.; Crowcroft, D. S.; Dickson, M.; von Dombrowski, S.; Drell, P. S.; Ecklund, K. M.; Ehrlich, R.; Foland, A. D.; Gaidarev, P.; Galik, R. S.; Gibbons, L.; Gittelman, B.; Gray, S. W.; Hartill, D. L.; Heltsley, B. K.; Hopman, P. I.; Kandaswamy, J.; Kreinick, D. L.; Lee, T.; Liu, Y.; Mistry, N. B.; Ng, C. R.; Nordberg, E.; Ogg, M.; Patterson, J. R.; Peterson, D.; Riley, D.; Soffer, A.; Valant-Spaight, B.; Ward, C.; Athanas, M.; Avery, P.; Jones, C. D.; Lohner, M.; Patton, S.; Prescott, C.; Rubiera, A. I.; Yelton, J.; Zheng, J.; Brandenburg, G.; Briere, R. A.; Ershov, A.; Gao, Y. S.; Kim, D. Y.-J.; Wilson, R.; Yamamoto, H.; Browder, T. E.; Li, Y.; Rodriguez, J. L.; Sahu, S. K.; Bergfeld, T.; Eisenstein, B. I.; Ernst, J.; Gladding, G. E.; Gollin, G. D.; Hans, R. M.; Johnson, E.; Karliner, I.; Marsh, M. A.; Palmer, M.; Selen, M.; Thaler, J. J.; Edwards, K. W.; Bellerive, A.; Janicek, R.; Patel, P. M.; Sadoff, A. J.; Ammar, R.; Baringer, P.; Bean, A.; Besson, D.; Coppage, D.; Darling, C.; Davis, R.; Kotov, S.; Kravchenko, I.; Kwak, N.; Zhou, L.; Anderson, S.; Kubota, Y.; Lee, S. J.; Mahapatra, R.; O'Neill, J. J.; Poling, R.; Riehle, T.; Smith, A.; Alam, M. S.; Athar, S. B.; Ling, Z.; Mahmood, A. H.; Timm, S.; Wappler, F.; Anastassov, A.; Duboscq, J. E.; Gan, K. K.; Hart, T.; Honscheid, K.; Kagan, H.; Kass, R.; Lee, J.; Schwarthoff, H.; Spencer, M. B.; Wolf, A.; Zoeller, M. M.
CS University of Oklahoma, Norman, OK, 73019, USA

SO Physical Review D: Particles and Fields (1999), 60(11), 112002/1-112002/9
CODEN: PRVDAQ; ISSN: 0556-2821
PB American Physical Society
DT Journal
LA English
AB Using a sample of 4.7 fb-1 integrated luminosity accumulated with the CLEO-II detector at the Cornell Electron Storage Ring (CESR), we have measured the ratios of the branching fractions B(τ- → K-h+π-ντ)/B(τ- → h-h+h-ντ)=(5.16±0.20.+-.0.50)+10-2, B(τ- → K-h+π-π0ντ)/B(τ- → h-h+h-π0ντ)=(2.54±0.44±0.39)+10-2, B(τ- → K-K+π-ντ)/B(τ- → h-h+h-ντ)=(1.52.+-.0.14±0.29)+10-2, and the upper limit B(τ- → K-K+π-π0ντ)/B(τ- → h-h+h-π0ντ)<0.0154 at 95% C.L. Coupled with addnl. exptl. information, we use our results to extract information on the structure of three-prong tau decays to charged kaons.
RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 22 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:540692 HCAPLUS
DN 129:251146
TI Continuum **charged** D* spin alignment at √s=10.5 GeV
AU Brandenburg, G.; Briere, R. A.; Ershov, A.; Gao, Y. S.; Kim, D. Y.-J.; Wilson, R.; Yamamoto, H.; Browder, T. E.; Li, Y.; Rodriguez, J. L.; Bergfeld, T.; Eisenstein, B. I.; Ernst, J.; Gladding, G. E.; Gollin, G. D.; Hans, R. M.; Johnson, E.; Karliner, I.; Marsh, M. A.; Palmer, M.; Selen, M.; Thaler, J. J.; Edwards, K. W.; Bellerive, A.; **Janicek, R.**; MacFarlane, D. B.; Patel, P. M.; Sadoff, A. J.; Ammar, R.; Baringer, P.; Bean, A.; Besson, D.; Coppage, D.; Darling, C.; Davis, R.; Kotov, S.; Kravchenko, I.; Kwak, N.; Zhou, L.; Anderson, S.; Kubota, Y.; Lee, S. J.; O'Neill, J. J.; Poling, R.; Riehle, T.; Smith, A.; Alam, M. S.; Athar, S. B.; Ling, Z.; Mahmood, A. H.; Timm, S.; Wappler, F.; Anastassov, A.; Duboscq, J. E.; Fujino, D.; Gan, K. K.; Hart, T.; Honscheid, K.; Kagan, H.; Kass, R.; Lee, J.; Spencer, M. B.; Sung, M.; Undrus, A.; Wolf, A.; Zoeller, M. M.; Nemati, B.; Richichi, S. J.; Ross, W. R.; Severini, H.; Skubic, P.; Bishai, M.; Fast, J.; Hinson, J. W.; Menon, N.; Miller, D. H.; Shibata, E. I.; Shipsey, I. P. J.; Yurko, M.; Glenn, S.; Kwon, Y.; Lyon, A. L.; Roberts, S.; Thorndike, E. H.; Jessop, C. P.; Lingel, K.; Marsiske, H.; Perl, M. L.; Savinov, V.; Ugolini, D.; Zhou, X.; Coan, T. E.; Fadeyev, V.; Korolkov, I.; Maravin, Y.; Narsky, I.; Shelkov, V.; Staeck, J.; Stroynowski, R.; Volobouev, I.; Ye, J.; Artuso, M.; Azfar, F.; Efimov, A.; Goldberg, M.; He, D.; Kopp, S.; Moneti, G. C.; Mountain, R.; Schuh, S.; Skwarnicki, T.; Stone, S.; Viehhauser, G.; Wang, J. C.; Xing, X.; Bartelt, J.; Csorna, S. E.; Jain, V.; McLean, K. W.; Marka, S.; Godang, R.; Kinoshita, K.; Lai, I. C.; Pomianowski, P.; Schrenk, S.; Bonvicini, G.; Cinabro, D.; Greene, R.; Perera, L. P.; Zhou, G. J.; Chadha, M.; Chan, S.; Eigen, G.; Miller, J. S.; Schmidtler, M.; Urheim, J.; Weinstein, A. J.; Wurthwein, F.; Bliss, D. W.; Masek, G.; Paar, H. P.; Prell, S.; Sharma, V.; Asner, D. M.; Gronberg, J.; Hill, T. S.; Lange, D. J.; Morrison, R. J.; Nelson, H. N.; Roberts, D.; Behrens, B. H.; Ford, W. T.; Gritsan, A.; Roy, J.; Smith, J. G.; Alexander, J. P.; Baker, R.; Bebek, C.; Berger, B. E.; Berkelman, K.; Bloom, K.; Boisvert, V.; Cassel, D. G.; Crowcroft, D. S.; Dickson, M.; Von Dombrowski, S.; Drell, P. S.; Ecklund, K. M.; Ehrlich, R.; Foland, A. D.; Gairdarev, P.; Gibbons, L.; Gittelman, B.; Gray, S. W.; Hartill, D. L.; Heltsley, B. K.; Hopman, P. I.; Kandaswamy, J.; Kim, P. C.; Kreinick, D. L.; Lee, T.; Liu,

Y.; Mistry, N. B.; Ng, C. R.; Nordberg, E.; Ogg, M.; Patterson, J. R.; Peterson, D.; Riley, D.; Soffer, A.; Valant-Spaight, B.; Ward, C.; Athanas, M.; Avery, P.; Jones, C. D.; Lohner, M.; Patton, S.; Prescott, C.; Yelton, J.; Zheng, J.
CS Harvard University, Cambridge, MA, 02138, USA
SO Physical Review D: Particles and Fields (1998), 58(5), 052003/1-052003/8
CODEN: PRVDAQ; ISSN: 0556-2821
PB American Physical Society
DT Journal
LA English
AB A measurement of the spin alignment of charged D* mesons produced in continuum e+e- → c-c events at √s=10.5 GeV is presented. This study using 4.72 fb-1 of CLEO II data shows that there is little evidence of any D* spin alignment.
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 23 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:625787 HCAPLUS
DN 127:268690
TI Energy and **charged** particle flow in 10.8A GeV/c Au+Au collisions. [Erratum to document cited in CA126:321836]
AU Barrette, J.; Bellwied, R.; Bennett, S.; Braun-Munzinger, P.; Chang, W. C.; Cleland, W. E.; Clemen, M.; Cole, J.; Cormier, T. M.; David, G.; Dee, J.; Dietzsch, O.; Drigert, M.; Hall, J. R.; Hemmick, T. K.; Herrmann, N.; Hong, B.; Kwon, Y.; Lacasse, R.; Lukaszew, A.; Li, Q.; Ludlam, T. W.; Mark, S. K.; Matheus, R.; McCorkle, S.; Murgatroyd, J. T.; O'Brien, E.; Panitkin, S.; Piazza, T.; Pruneau, C.; Rao, M. N.; Rosati, M.; daSilva, N. C.; Sedykh, S.; Sonnadara, U.; Stachel, J.; Takagui, E. M.; Voloshin, S.; Wang, G.; **Wessels, J. P.**; Woody, C. L.; Xu, N.; Zhang, Y.; Zou, C.
CS E877 Collaboration, Brookhaven Natl. Lab., Upton, NY, 1197793, USA
SO Physical Review C: Nuclear Physics (1997), 56(4), 2336
CODEN: PRVCAN; ISSN: 0556-2813
PB American Physical Society
DT Journal
LA English
AB The figures described sequentially in the text as 11, 12, and 13 correspond to the published Figs. 13, 11, and 12, resp.; the figure captions are correct in sequence as published.

L29 ANSWER 24 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:196155 HCAPLUS
DN 126:321836
TI Energy and **charged** particle flow in 10.8 AGeV/c Au + Au collisions
AU Barrette, J.; Bellwied, R.; Bennett, S.; Braun-Munzinger, P.; Chang, W. C.; Cleland, W. E.; Clemen, M.; Cole, J.; Cormier, T. M.; David, G.; Dee, J.; Dietzsch, O.; Drigert, M.; Hall, J. R.; Hemmick, T. K.; Herrmann, N.; Hong, B.; Kwon, Y.; Lacasse, R.; Lukaszew, A.; Li, Q.; Ludlam, T. W.; Mark, S. K.; Matheus, R.; McCorkle, S.; Murgatroyd, J. T.; O'Brien, E.; Panitkin, S.; Piazza, T.; Pruneau, C.; Rao, M. N.; Rosati, M.; da Silva, N. C.; Sedykh, S.; Sonnadara, U.; Stachel, J.; Takagui, E. M.; Voloshin, S.; Wang, G.; **Wessels, J. P.**; Woody, C. L.; Xu, N.; Zhang, Y.; Zou, C.
CS E877 Collaboration, Brookhaven Natl. Lab., Upton, NY, 11973, USA
SO Physical Review C: Nuclear Physics (1997), 55(3), 1420-1430
CODEN: PRVCAN; ISSN: 0556-2813

PB American Physical Society
DT Journal
LA English
AB Exptl. results and a detailed anal. are presented of the transverse energy and charged particle azimuthal distributions measured by the E877 Collaboration for different centralities of Au + Au collisions at a beam momentum of 10.8 AGeV/c. The anisotropy of these distributions is studied with respect to the reaction plane reconstructed on an event-by-event basis using the transverse energy distribution measured by calorimeters. Results are corrected for the reaction plane resolution For semicentral events we observe directed flow signals of up to 10%. We observe a stronger anisotropy for slow charged particles. For both the charged particle and transverse energy distributions we observe a small but nonzero elliptic anisotropy with the major axis pointing into the reaction plane. Combining the information on transverse energy and charged particle flow we obtain information on the flow of nucleons and pions. The data are compared to event generators and the need to introduce a mean field or nucleon-nucleon potential is discussed.

L29 ANSWER 25 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1994:711713 HCAPLUS
DN 121:311713
TI Enhancement of FLC switching properties using SiO alignment layers combined with **charge**-transfer complexes
AU Matsui, Eriko; Nito, Keiichi; **Yasuda, Akio**
CS Res. Cent., Sony Corp., Yokohama, 240, Japan
SO Ferroelectrics (1993), 149(1-4), 97-107
CODEN: FEROA8; ISSN: 0015-0193
DT Journal
LA English
AB We have previously reported that an overlayer of tetrathiafulvalene-tetracyanoquinodimethane (TTF-TCNQ), a conductive material, on the SiO layers is effective in shortening the response time of FLCDs (ferroelec. liquid crystal displays). In this paper, we demonstrated that FLC mixts. with larger spontaneous polarization values reveal more clearly the effect of an overlayer of TTF-TCNQ. Addnl., the b axis, which is the highest conductive direction, of the TTF-TCNQ complex was found to be aligned along the SiO pillars. The TTF-TCNQ did not form a complete film on the SiO films, but was localized in the regions between the SiO pillars. The results indicate that the TTF-TCNQ complex links the FLC to the electrode, providing a low-resistance path between the two and thus reducing the accumulated surface charge.

L29 ANSWER 26 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1993:177349 HCAPLUS
DN 118:177349
TI Tau decays with one **charged** particle plus multiple π0's
AU Procario, M.; Yang, S.; Balest, R.; Cho, K.; Daoudi, M.; **Ford, W. T.**; Johnson, D. R.; Lingel, K.; Lohner, M.; et al.
CS Carnegie-Mellon Univ., Pittsburgh, PA, 15213, USA
SO Physical Review Letters (1993), 70(9), 1207-11
CODEN: PRLTAO; ISSN: 0031-9007
DT Journal
LA English
AB With the CLEO-II detector at the Cornell Electron Storage Ring, we have measured branching fractions for tau lepton decay into one-prong final states with multiple π0's, Bhnπ0, normalized to the branching

fraction for tau decay into one charged particle and a single π0. We find βh2π0/Bhπ0 = 0.345 ± 0.006 ± 0.016, Bh3π0/Bhπ0 = 0.041 ± 0.003 ± 0.005, and Bh4π0/Bhπ0 = 0.006 ± 0.002 ± 0.002.

L29 ANSWER 27 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1989:161689 HCAPLUS
DN 110:161689
TI A measurement of the e+e- → b.hivin.b forward-backward **charge** asymmetry at √ s = 29 GeV
AU Band, H. R.; Camporesi, T.; Chadwick, G. B.; Delfino, M. C.; De Sangro, R.; **Ford, W. T.**; Gettner, M. W.; Goderre, G. P.; Groom, D. E.; et al.
CS Dep. Phys., Univ. Colorado, Boulder, CO, 80309, USA
SO Physics Letters B (1989), 218(3), 369-73
CODEN: PYLBAJ; ISSN: 0370-2693
DT Journal
LA English
AB High-p⊥ inclusive μ events produced in e+e- annihilations at √s = 29 GeV were analyzed to obtain a measurement of the b.hivin.b forward-backward charge asymmetry. The result Ab = 0.034 ± 0.070 ± 0.035 differs from the theor. expectation (-0.16) unless substantial B0-.hivin.B0 mixing is assumed.

L29 ANSWER 28 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1988:175235 HCAPLUS
DN 108:175235
TI Observation of **charge** asymmetry in hadron jets from e+e- annihilation at √s = 29 GeV
AU Lavine, Theodore L.; Ash, W. W.; Band, H. R.; Camporesi, T.; Chadwick, G. B.; Delfino, M. C.; De Sangro, R.; **Ford, W. T.**; Gettner, M. W.; et al.
CS Dep. Phys., Univ. Wisconsin, Madison, WI, 53706, USA
SO Proceedings of the Rencontre de Moriond (1987), 22nd(Vol. 1, Stand. Model/Supernova 1987A), 79-82
CODEN: PREMD5; ISSN: 1148-5825
DT Journal
LA English
AB A charge asymmetry was observed with the MAC detector in an inclusive sample of 2-jet events resulting from e+e- annihilation into quark pairs of all flavors at √s = 29 GeV. The measured asymmetry is consistent with the prediction of electroweak theory. The weak axial-vector quark coupling constant corresponding to the charge asymmetry is gAq = +0.68 ± 0.12 ± 0.10, averaged over all quark flavors.

L29 ANSWER 29 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1987:145367 HCAPLUS
DN 106:145367
TI Observation of **charge** asymmetry in hadron jets from e+e- annihilation at √s = 29 GeV
AU Ash, W. W.; Band, H. R.; Camporesi, T.; Chadwick, G. B.; Delfino, M. C.; De Sangro, R.; **Ford, W. T.**; Gettner, M. W.; Goderre, G. P.; et al.
CS Dep. Phys., Univ. Colorado, Boulder, CO, 80309, USA
SO Physical Review Letters (1987), 58(11), 1080-3
CODEN: PRLTAO; ISSN: 0031-9007
DT Journal
LA English

AB A charge asymmetry was observed in final-state jets from e+e- annihilation into hadrons at √s ν 29 GeV. The measured asymmetry is consistent with the prediction of electroweak theory. The product of axial-vector weak coupling consts., averaged over all quark flavors, is determined to be -0.34 ± 0.06 ± 0.05.

L29 ANSWER 30 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1977:62000 HCAPLUS
DN 86:62000
TI Recent results on ν,.hivin.ν **charged** current interactions at NAL
AU Aubert, B.; Benvenuti, A.; Cline, D.; **Ford, W. T.**; Imlay, R.; Ling, T. Y.; Mann, A. K.; Messing, F.; Piccioni, R. L.; et al.
CS Harvard Univ., Cambridge, MA, USA
SO C. R. Rencontre Moriond, 9th (1974), Volume 2, 75-86. Editor(s): Tran Thanh Van, Jean. Publisher: Recontre Moriond, Lab. Phys. Theor. Part. Elem., Orsay, Fr.
CODEN: 34FIAI
DT Conference
LA English
AB Preliminary results are presented for the distributions of the scaling variables observed in ν interactions. The dependence of the ν cross section on energy was measured for ≤160 GeV. The ratio σanti-ν/σν was measured for ≤70 GeV. The νZ → μ- + all and .hivin.νZ → μ+ + all reactions were investigated.

L29 ANSWER 31 OF 31 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1971:26781 HCAPLUS
DN 74:26781
TI Search for violation of CP [**charge** conjugation parity] invariance in τ+-decay
AU **Ford, William T.**; Piroue, Pierre A.; Remmel, Ronald S.; Smith, Arthur J. S.; Souder, Paul A.
CS Joseph Henry Lab., Princeton Univ., Princeton, NJ, USA
SO Physical Review Letters (1970), 25(19), 1370-3
CODEN: PRLTAO; ISSN: 0031-9007
DT Journal
LA English
AB A comparison is reported of the Dalitz-plot distributions of 1.6 million τ+ decays (K+ → π+π+π-) and an equal number of τ- decays. No significant asymmetry was found in any region of the plot. In terms of the difference in the slope parameters a+ and a- for the odd-pion center-of-mass-energy spectra, the asymmetry is Δ = (a+ - a-)/(a+ + a-] = -0.0070 ± 0.0053. A preliminary result is also presented for the slope parameter itself: a = 0.283 ± 0.005. New measurements of the τ± decay rates and their difference confirm previous results.

=> log h

=> file caplus

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FILE LAST UPDATED: 10 Feb 2004 (20040210/ED)

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=> file beilstein

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FILE LAST UPDATED ON DECEMBER 15, 2003

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=> file marpat

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FILE CONTENT: 1988-PRESENT (VOL 140 ISS 06)(20040206 ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6673954 06 JAN 2004
DE 10317295 08 JAN 2004
EP 1380632 14 JAN 2004
JP 2004014584 15 JAN 2004
WO 2004004674 15 JAN 2004

Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

=> FIL STNGUIDE

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LAST RELOADED: Feb 6, 2004 (20040206/UP).

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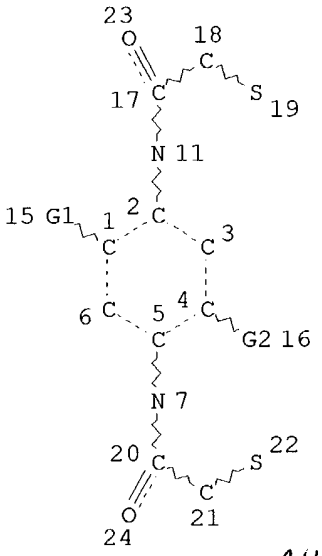
L18 STR

L18 STR



G1=R1
G2=R2

Alkyl

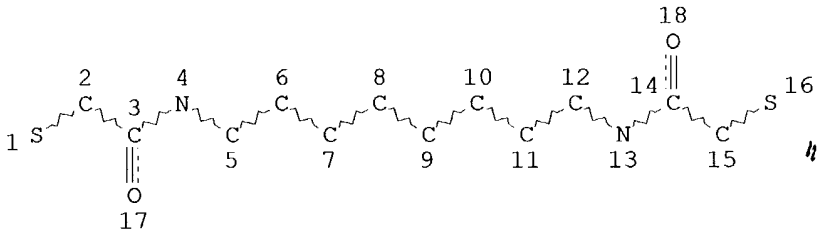
VAR G1=AK/CL
VAR G2=AK/CL
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE
L19 (2) SEA FILE=REGISTRY SSS FUL L18
L20 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L19

search structure
search for references in HCAPLUS

=> d que stat 15
L3 STR



"1,8-dimercaptoacetamidooctane"
(structure based on those found in the CAPLUS record for the patent application)

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

search for structures

search for references in HCAPLUS

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L4          2 SEA FILE=REGISTRY SSS FUL L3
L5          1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L4
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Other named compounds

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=> d que stat l14
L11         5 SEA FILE=REGISTRY ABB=ON  PLU=ON  (437655-42-0 OR 437655-41-9
              OR 433713-40-7 OR 437655-43-1 OR 46350-14-5)/RN
L12        13 SEA FILE=REGISTRY ABB=ON  PLU=ON  (437655-42-0 OR 437655-41-9
              OR 433713-40-7 OR 437655-43-1 OR 46350-14-5)/CRN
L13        18 SEA FILE=REGISTRY ABB=ON  PLU=ON  L11 OR L12
L14        23 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L13
```

* Query finds compounds exact structures and mixtures, but not derivatives *

RN: registry number; CRN: component registry number

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=> d l21 ibib hitstr abs 1-
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

YOU HAVE REQUESTED DATA FROM 24 ANSWERS - CONTINUE? Y/(N):y

L21 ANSWER 1 OF 24  HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:         2002:775298  HCAPLUS
DOCUMENT NUMBER:          138:65582
TITLE:                    Tetrathiocarbamato complexes and forced configurations
AUTHOR(S):                Ramakrishnan, V.; Sridharan, K.
CORPORATE SOURCE:         Post-Graduate & Research Department of Chemistry,
                          National College, Tiruchirapalli, 620 001, India
SOURCE:                   Journal of the Indian Chemical Society (2002), 79(9),
                          719-721
                          CODEN: JICSAH; ISSN: 0019-4522
PUBLISHER:                Indian Chemical Society
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
OTHER SOURCE(S):          CASREACT 138:65582
IT   46350-14-5P
     RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
        (preparation and complexation with transition metal ions)
RN   46350-14-5  HCAPLUS
CN   Carbamodithioic acid, 1,4-phenylenebis- (9CI)  (CA INDEX NAME)
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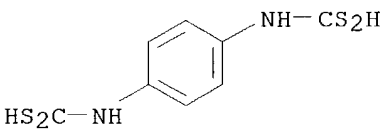


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AB   Oxovanadium(II), Co(II), Ni(II) and Cu(II) complexes of
     tetrathiocarbamates of ortho-, meta- and para- phenylenediamines (OPDTTC,
     MPDTTC and PPDTTC) were synthesized.  Co remains in the +2 state and is
     not spontaneously oxidized to +3 during complexation, which may be
     attributed to the structural rigidity imposed by the ligands.  All the
     complexes show metal-metal interaction with the exception of
     oxovanadium(II) complexes, which do not show metal-metal interaction.  The
     Cu complexes are diamagnetic indicating a strong metal-metal interaction
     through the ligand by super-exchange mechanism.
REFERENCE COUNT:          14    THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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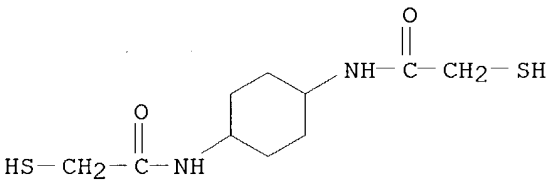
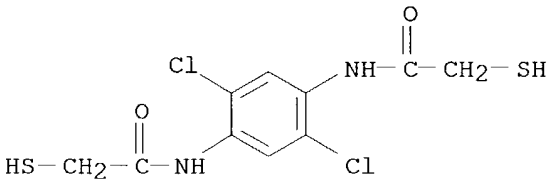
L21 ANSWER 2 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:462542 HCAPLUS
DOCUMENT NUMBER: 137:15023
TITLE: Selective chemical sensors based on interlinked nanoparticle assemblies
INVENTOR(S): Vossmeyer, Tobias; Besnard, Isabelle; Wessels, Jurina; Ford, William; Yasuda, Akio
PATENT ASSIGNEE(S): Sony International (Europe) G.m.b.H., Germany
SOURCE: Eur. Pat. Appl., 37 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1215485	A1	20020619	EP 2000-127149	20001212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AU 2001097083	A5	20020613	AU 2001-97083	20011205
US 2002132361	A1	20020919	US 2001-13388	20011211
CN 1359002	A	20020717	CN 2001-145459	20011212
JP 2002228616	A2	20020814	JP 2001-379139	20011212

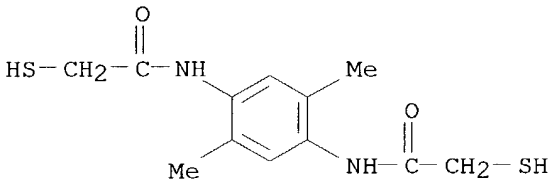
PRIORITY APPLN. INFO.: EP 2000-127149 A 20001212
IT **433713-40-7 433713-41-8 433713-42-9**
RL: ARG (Analytical reagent use); DEV (Device component use); ANST (Analytical study); USES (Uses)
(volatile organic compds. determination by selective chemical sensors based on
interlinked nanoparticle assemblies)
RN 433713-40-7 HCAPLUS
CN Acetamide, N,N'-1,4-cyclohexanediylbis[2-mercapto- (9CI) (CA INDEX NAME)



RN 433713-41-8 HCAPLUS
CN Acetamide, N,N'-(2,5-dichloro-1,4-phenylene)bis[2-mercapto- (9CI) (CA INDEX NAME)



RN 433713-42-9 HCAPLUS
CN Acetamide, N,N'-(2,5-dimethyl-1,4-phenylene)bis[2-mercapto- (9CI) (CA INDEX NAME)



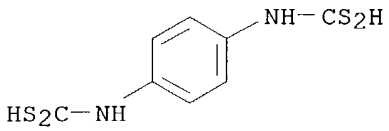
AB The invention relates to a nanoparticle film comprising a nanoparticle network formed of nanoparticles interlinked by linker mols. The linker mols. have at least two linker units that can bind to the surface of the nanoparticles. By introducing selectivity-enhancing units in the linker mol., the selectivity of the nanoparticle film towards target analytes can be enhanced. A fine-tuning of the selectivity can be achieved by including a fine-tuning unit in the vicinity of the selectivity-enhancing unit. The nanoparticle film can be used to produce chemical sensors which are selective and stable in their performance.
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 3 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:462494 HCAPLUS
DOCUMENT NUMBER: 137:40117
TITLE: Tuned multifunctional linker molecules for electronic charge transport through organic-inorganic composite structures and use thereof
INVENTOR(S): Ford, William E.; Wessels, Jurina; Yasuda, Akio
PATENT ASSIGNEE(S): Sony International (Europe) G.m.b.H., Germany
SOURCE: Eur. Pat. Appl., 36 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

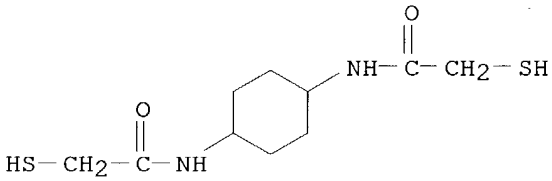
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1215205	A1	20020619	EP 2000-126968	20001208
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002127756	A1	20020912	US 2001-6636	20011206
JP 2002265433	A2	20020918	JP 2001-374916	20011207

PRIORITY APPLN. INFO.: EP 2000-126968 A 20001208
IT **46350-14-5P 433713-40-7P 433713-41-8P 433713-42-9P 437655-41-9P 437655-42-0P 437655-43-1P**
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(tuned multifunctional linker mols. for electronic charge transport through organic-inorg. composite structures and use thereof)
RN 46350-14-5 HCAPLUS

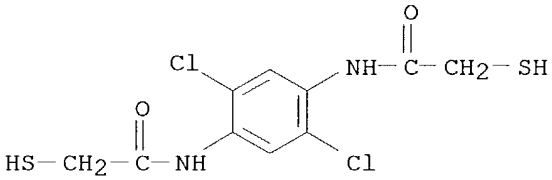
CN Carbamodithioic acid, 1,4-phenylenebis- (9CI) (CA INDEX NAME)



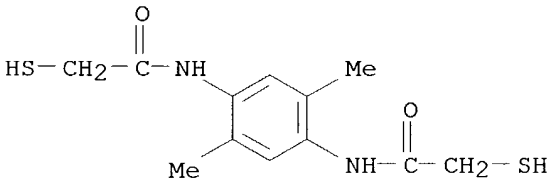
RN 433713-40-7 HCAPLUS
CN Acetamide, N,N'-1,4-cyclohexanediylbis[2-mercapto- (9CI) (CA INDEX NAME)



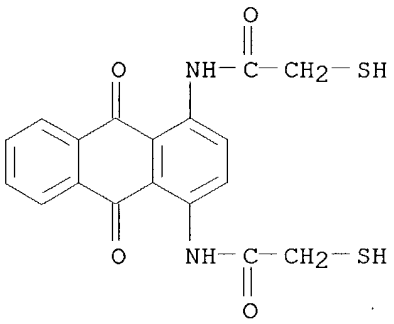
RN 433713-41-8 HCAPLUS
CN Acetamide, N,N'-(2,5-dichloro-1,4-phenylene)bis[2-mercapto- (9CI) (CA INDEX NAME)



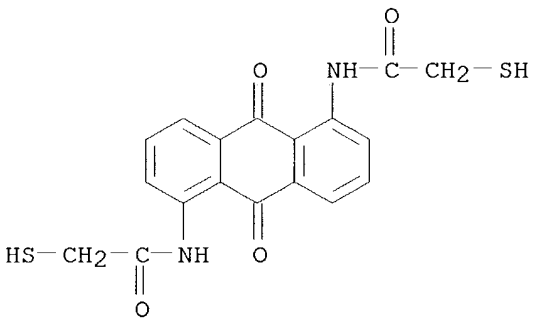
RN 433713-42-9 HCAPLUS
CN Acetamide, N,N'-(2,5-dimethyl-1,4-phenylene)bis[2-mercapto- (9CI) (CA INDEX NAME)



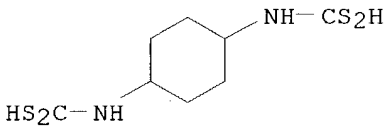
RN 437655-41-9 HCAPLUS
CN Acetamide, N,N'-(9,10-dihydro-9,10-dioxo-1,4-anthracenediyl)bis[2-mercapto- (9CI) (CA INDEX NAME)



RN 437655-42-0 HCAPLUS
CN Acetamide, N,N'-(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)bis[2-mercapto- (9CI) (CA INDEX NAME)



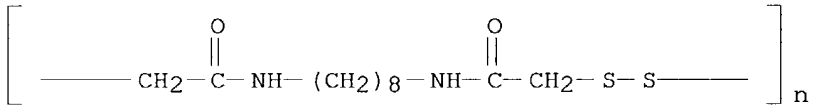
RN 437655-43-1 HCAPLUS
CN Carbamodithioic acid, 1,4-cyclohexanediylbis- (9CI) (CA INDEX NAME)



AB The problem underlying the present invention is to provide multifunctional linker mols. for tuning the conductivity in nanoparticle-linker assemblies which can be used in the formation of electronic networks and circuits and thin films of nanoparticles. The problem is solved according to the invention by providing a multifunctional linker mol. of the general structure CON1-FUNC1-X-FUNC2-CON2 in which X is the central body of the mol., FUNC1 and FUNC2 independently of each other are mol. groups introducing a dipole moment and/or capable of forming intermol. and/or intramol. H bonding networks, and CON1 and CON2 independently of each other are mol. groups binding to nanostructured units comprising metal and semiconductor materials.

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

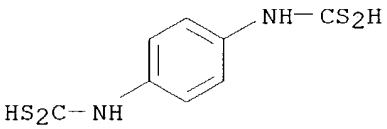
L21 ANSWER 4 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:859343 HCAPLUS
DOCUMENT NUMBER: 134:88704
TITLE: Electrochemical behavior of polyamides with cyclic disulfide structure and their application to positive active material for lithium secondary battery
AUTHOR(S): Tsutsumi, Hiromori; Oyari, Yoshiaki; Onimura, Kenjiro; Oishi, Tsutomu
CORPORATE SOURCE: Department of Applied Chemistry and Chemical Engineering, Yamaguchi University, Ube, 755-8611, Japan
SOURCE: Journal of Power Sources (2001), 92(1-2), 228-233
CODEN: JPSODZ; ISSN: 0378-7753
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **316807-25-7**
RL: DEV (Device component use); USES (Uses)
(electrochem. behavior of polyamides with cyclic disulfide structure and their application as cathode material for lithium secondary battery)
RN 316807-25-7 HCAPLUS
CN Poly[dithio(2-oxo-1,2-ethanediyl)imino-1,8-octanediylimino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



AB Polyamides (DTA-I, DTA-II, and DTA-III) containing cyclic disulfide structure were prepared by condensation between 1,2-dithiane-3,6-dicarboxylic acid (DTA) and alkyl diamine, NH2-(CH2)n-NH2 (DTA-I; n=4, DTA-II; n=6, DTA-III; n=8) and their application to pos. active material for lithium secondary batteries was investigated. Cyclic voltammetry (CV) measurements under slow sweep rate (0.5 mV/s) with a carbon paste electrode containing the polyamide (DTA-I, DTA-II, or DTA-III) were performed. The results indicated that the polyamides were electroactive in the organic electrolyte solution (propylene carbonate (PC)-1,2-dimethoxyethane (DME), 1:1 by volume containing lithium salt, such as LiClO4). The responses based on the redox of the disulfide bonds in the polyamide were observed Test cells, Li/PC-DME (1:1 by volume) with 1 mol dm-3 LiClO4/the polyamide cathode, were constructed and their performance was tested under constant current charge/discharge condition. The average capacity of the test cells with the DTA-III cathode was 64.3 Ah/kg of cathode (135 Wh/kg of cathode, capacity (Ah/kg) of the cathode+average cell voltage (2.10 V)). Performance of the cell with linear polyamide containing disulfide bond (-CO-(CH2)2-S-S-(CH2)2-CONH-(CH2)8- NH-, GTA-III) was also investigated and the average capacity was 56.8 Ah/kg of cathode (100 Wh/kg of cathode, capacity (Ah/kg) of the cathode+average cell voltage (1.76 V)). Cycle efficiency of the test cell with the DTA-III cathode was higher than that with the GTA-III cathode.
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 5 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:139373 HCAPLUS
DOCUMENT NUMBER: 130:275650
TITLE: Some complexes of tetrathiocarbamates with cobalt(II), nickel(II) and copper(II)
AUTHOR(S): Sallomi, Issam; Al-Zeadan, Wijdan; Ibrahim, Nehad
CORPORATE SOURCE: Department of Chemistry, Mosul University, Mosul, Iraq
SOURCE: Dirasat: Natural and Engineering Sciences (1997), 24(1), 141-147
CODEN: DNESFZ; ISSN: 1026-3756
PUBLISHER: University of Jordan, Deanship of Academic Research
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **222053-76-1**, Dipotassium p-phenylenebis(dithiocarbamate)
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant for preparation of cobalt(II), nickel(II) and copper(II) phenylenebis(dithiocarbamate) complexes)
RN 222053-76-1 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, dipotassium salt (9CI) (CA INDEX NAME)

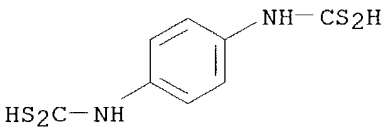


●2 K

AB Tetrathiocarbamate complexes of some 1st row transition elements [M(L)] and K2[M2(L)Cl4] where M = cobalt(II), nickel(II) and copper(II), and L = TEN, TOPD and TPPD, are the tetrathiocarbamate ligands derived from ethylenediamine, ortho and para-phenylenediamine, resp. were synthesized and characterized from their elemental anal., molar conductance, magnetic susceptibility, IR and electronic spectral measurements. The studies of the complexes revealed two different behaviors of the ligands. TEN and TOPD act as dibasic tetradentate with the formation of neutral mononuclear complexes, while TPPD behaves as dibasic tetradentate bridging ligand with the formation of anionic dinuclear complexes. The results of magnetic moment and electronic spectral measurements indicate tetrahedral arrangement for cobalt(II) complexes and square planar for nickel(II) and copper(II) complexes.
REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 6 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:110817 HCAPLUS
DOCUMENT NUMBER: 124:218490
TITLE: Some complexes of tetrathiocarbamate
AUTHOR(S): Sallomi, I.J.; Al-Zeadan, W.A.G.; Ibrahem, N.H.
CORPORATE SOURCE: College of Education, University of Mosul, Mosul, Iraq
SOURCE: Dirasat - University of Jordan, Series B: Pure and Applied Sciences (1995), 22B(1), 161-70
CODEN: DJSSE8
PUBLISHER: University of Jordan, Dean of Academic Research

DOCUMENT TYPE: Journal
LANGUAGE: English
IT **46350-14-5P,** Phenylene-1,4-bis(dithiocarbamic acid)
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with transition metal salts)
RN 46350-14-5 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis- (9CI) (CA INDEX NAME)

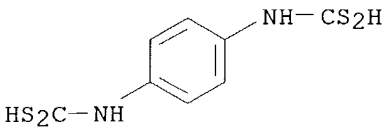


AB Several new complexes [M(TEN)] and Na2 [M2(TPD)Cl4] (M = Zn(II), Cd(II) and Hg(II) and TEN, TPD are tetrathiocarbamate ligands derived from ethylenediamine and p-phenylenediamine, resp.) were prepared in aqueous solution
The 1:1 (metal-ligand ratio) complexes were characterized from their elemental anal., molar conductances and IR absorption spectra. In all the prepared compds., the ligands act as dibasic tetradentate and form neutral and anionic tetracoordinated metal complexes.

L21 ANSWER 7 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:552149 HCAPLUS
DOCUMENT NUMBER: 123:37617
TITLE: Synthesis and designing of polymeric reagents for specific separation of metal ions
AUTHOR(S): Bajpai, U D N.; Nivedita; Bajpai, Anjali
CORPORATE SOURCE: Dept. Chemistry, Rani Durgavati Vishwavidyalaya, Jabalpur, India
SOURCE: Adv. Chem. Eng. Nucl. Process Ind. (1994), 477-81. Bhabha At. Res. Cent.: Bombay, India.
CODEN: 61FQAK
DOCUMENT TYPE: Conference
LANGUAGE: English
IT **164177-58-6 164177-60-0 164177-62-2 164230-64-2**
RL: NUU (Other use, unclassified); USES (Uses)
(synthesis and design of polymeric reagents for separation of metal ions)
RN 164177-58-6 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, disodium salt, polymer with 1,4-bis(chloromethyl)benzene (9CI) (CA INDEX NAME)

CM 1

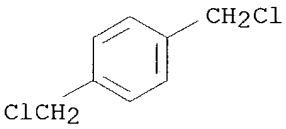
CRN 14549-85-0
CMF C8 H8 N2 S4 . 2 Na



●2 Na

CM 2

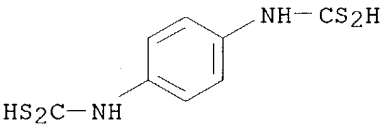
CRN 623-25-6
CMF C8 H8 Cl2



RN 164177-60-0 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, disodium salt, polymer with ethenylbenzene, graft (9CI) (CA INDEX NAME)

CM 1

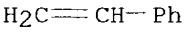
CRN 14549-85-0
CMF C8 H8 N2 S4 . 2 Na



●2 Na

CM 2

CRN 100-42-5
CMF C8 H8

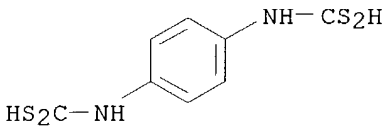


RN 164177-62-2 HCAPLUS

CN Carbamodithioic acid, 1,4-phenylenebis-, disodium salt, polymer with 1,4-bis(chloromethyl)benzene and ethenylbenzene, graft (9CI) (CA INDEX NAME)

CM 1

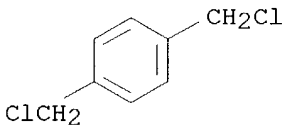
CRN 14549-85-0
CMF C8 H8 N2 S4 . 2 Na



●2 Na

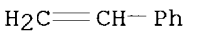
CM 2

CRN 623-25-6
CMF C8 H8 Cl2



CM 3

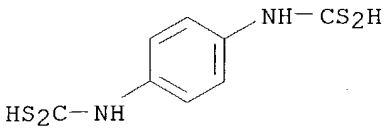
CRN 100-42-5
CMF C8 H8



RN 164230-64-2 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, disodium salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

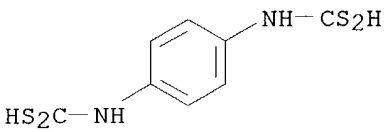
CRN 14549-85-0
CMF C8 H8 N2 S4 . 2 Na



●2 Na

AB S- and N-containing compds. like thioureas, dithiooxamides and dithiocarbamates have been used in metal extraction by the coordination method or by adsorption. Polymeric reagents containing S and N atoms have rarely been used as separating reagents. The synthesis of a series of multifunctional polymeric reagents and their application to metal separation has been discussed. Multifunctional polymeric reagents may be defined as a polymer consisting of a number of chelating functional groups along the main chain. Such polymeric reagents may also function as polymeric initiator for the synthesis of another variety of multifunctional polymeric reagents. The synthesis of following types of multifunctional polymers and their applications as separating polymeric reagents are described: (1) multifunctional polymer reagent having S-S bonds such as poly(ethylenebisdithiocarbamate) or poly(phenylenebisdithiocarbamate) (2) multifunctional polymeric reagents having C-S bonds such as poly(ethylebisdithiocarbamate-co-xylene) or poly(phenylenebisthiocarbamate-co-xylene) (3) multifunctional polymeric reagents obtained by thermal polymerization of styrene with the above mentioned four compds.

L21 ANSWER 8 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:425469 HCAPLUS
DOCUMENT NUMBER: 121:25469
TITLE: Structural and electronic properties of some new m- and p-phenylenebisdithiocarbamato polymers
AUTHOR(S): Xanthopoulos, C. E.; Hadjikostas, C. C.; Katsoulos, G. A.
CORPORATE SOURCE: Dep. Chem., Aristotle Univ., Thessaloniki, 540 06, Greece
SOURCE: International Journal of Chemistry (1993), 4(3), 69-79
CODEN: INJCEW
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **102148-83-4P**, Diammonium p-phenylenebisdithiocarbamate
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and complexation of, with transition metals)
RN 102148-83-4 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, diammonium salt (9CI) (CA INDEX NAME)



●2 NH_3

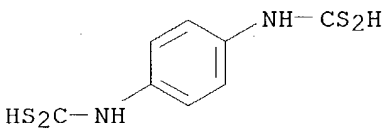
AB [M(m-PBDTC)]n and [M(p-PBDTC)]n (M = Ni, Cu, Co, Mn or Zn; and m-PBDTCH2 or p-PBDTCH2 = m- and p-phenylenebisdithiocarbamic acid) were prepared and studied. The structures of the new compds. are discussed in relation to their spectroscopic and magnetic properties. The results of PM3 MO calcns. also were used to elucidate some aspects of their structural and electronic properties.

L21 ANSWER 9 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1990:169090 HCAPLUS
DOCUMENT NUMBER: 112:169090
TITLE: Bisazo compounds, their preparation, and electrophotographic photoconductors containing the bisazo compounds
INVENTOR(S): Nishiguchi, Toshihiko
PATENT ASSIGNEE(S): Mita Industrial Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01261463	A2	19891018	JP 1988-89732	19880412

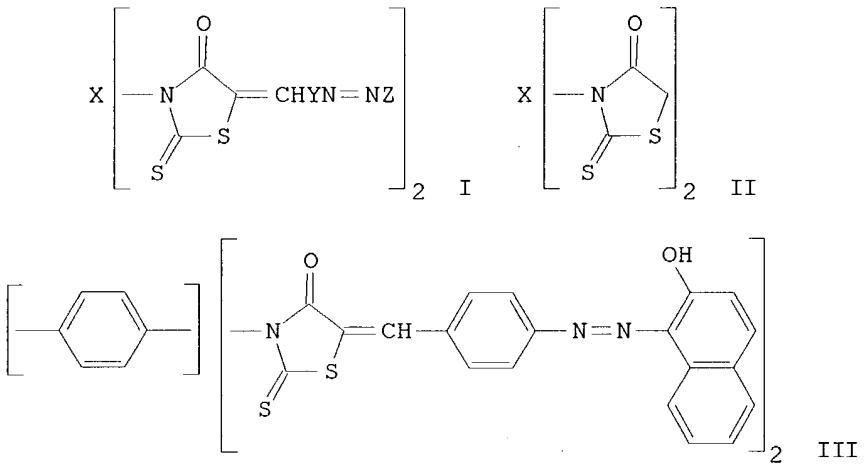
PRIORITY APPLN. INFO.: JP 1988-89732 19880412

IT **102148-83-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with chloroacetic ester, electrophotog. charge generators from)
RN 102148-83-4 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, diammonium salt (9CI) (CA INDEX NAME)



●2 NH_3

GI

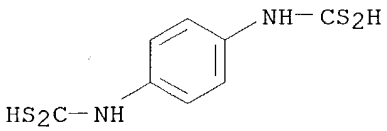


AB The compds. have structure I (X, Y, Z = alkylene, arylene). These are prepared by condensation of rhodanine derivs. II with OHCYN:NZ. The invention photoconductors contain these compds. and charge carrier-transporting agents in the same or sep. layers. These compds. are highly dispersible in polymers, and provide high photosensitivity to visible light. Thus, phenylenebisrhodanine obtained by reaction of p-phenylenediamine with CS2 and Et chloroacetate was condensed with 1-(p-formylphenylazo)-2- naphthol obtained from p-aminobenzaldehyde by diazotization and coupling with β-naphthol, to obtain a bisazo compound III. Photoconductor containing this compound as charge generator showed high sensitivity.

L21 ANSWER 10 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1987:636880 HCAPLUS
DOCUMENT NUMBER: 107:236880
TITLE: Synthesis and characterization of new organotin(IV)-phenylenebis(dithiocarbamate) complexes
AUTHOR(S): Lee, Won Ho; Jung, Ok Sang; Sohn, Youn Soo; Kim, Poongzag
CORPORATE SOURCE: Inorg. Chem. Lab., Korea Adv. Inst. Sci. Technol., Seoul, 131, S. Korea
SOURCE: Bulletin of the Korean Chemical Society (1986), 7(6), 421-5
CODEN: BKCSDE; ISSN: 0253-2964
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **111459-64-4P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)
RN 111459-64-4 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, disodium salt, polymer with dichlorodimethylstannane (9CI) (CA INDEX NAME)

CM 1

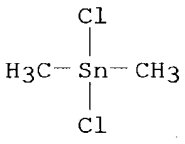
CRN 14549-85-0
CMF C8 H8 N2 S4 . 2 Na



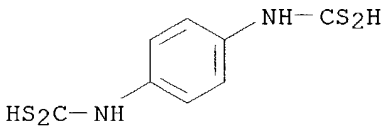
●2 Na

CM 2

CRN 753-73-1
CMF C2 H6 Cl2 Sn

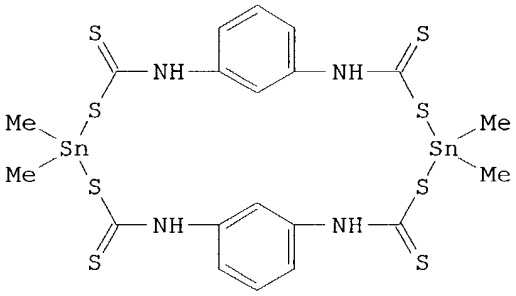


IT **14549-85-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with diorganotin dichlorides or with triphenyltin chloride)
RN 14549-85-0 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

GI



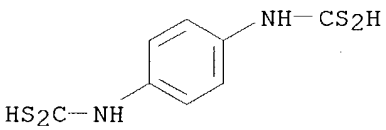
II

AB Reaction of R2SnCl2 (R = Me, cyclohexyl, Bu) with m-(NaS2CNH)2C6H4 (I) gave dimeric 1:1 products, e.g., II. Similar reaction of p-(NaS2CNH)2C6H4 (III) gave oligomeric or polymeric products. Reaction of either I or III with Ph3SnCl gave monomeric complexes (Ph3Sn)2.(S2CNH)2C6H4.

L21 ANSWER 11 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1987:156011 HCAPLUS
DOCUMENT NUMBER: 106:156011
TITLE: Synthesis of new dithiocarbamates
AUTHOR(S): Hu, Zhenshan; Zheng, Donngshuei; Zheng, Jinghe; Liu, Guozhi
CORPORATE SOURCE: Changchun Inst. Appl. Chem., Acad. Sin., Changchun, Peop. Rep. China
SOURCE: Yingyong Huaxue (1986), 3(4), 75-7
CODEN: YIHUED; ISSN: 1000-0518
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
OTHER SOURCE(S): CASREACT 106:156011

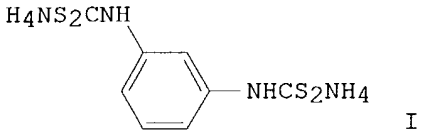
IT **102148-83-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 102148-83-4 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, diammonium salt (9CI) (CA INDEX NAME)



●2 NH_3

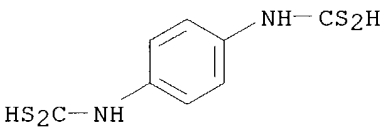
GI

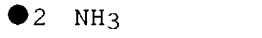


I

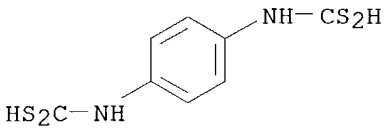
AB Dithiocarbamates were prepared by treating polyamines with CS2. Thus, stirring m-phenylenediamine with CS2 and NH4OH in H2O gave 70% dithiocarbamate I.

L21 ANSWER 12 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1986:198955 HCAPLUS
DOCUMENT NUMBER: 104:198955
TITLE: The microanalysis of metals by the chelating reagents with two dithiocarboxylic groups. III. The synthesis of ten chelating reagents of bisdithiocarbamates and dixanthates, and their ultraviolet, visible and infrared absorption spectra, NMR spectra, chelate formation and application to microanalysis of metals
AUTHOR(S): Yamamoto, Daijiro; Aoyama, Mamoru
CORPORATE SOURCE: Fac. Agric., Meiji Univ., Kawasaki, 214, Japan
SOURCE: Meiji Daigaku Nogakubu Kenkyu Hokoku (1985), (68), 69-90
CODEN: MDNHA3; ISSN: 0465-6083
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
IT **102148-83-4P**
RL: PREP (Preparation)
(preparation and spectra and use of, for spectrophotometric determination of trace metals)
RN 102148-83-4 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, diammonium salt (9CI) (CA INDEX NAME)





IT **46350-14-5D**, cobalt and copper and nickel complexes
RL: PRP (Properties)
(spectra of)
RN 46350-14-5 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis- (9CI) (CA INDEX NAME)



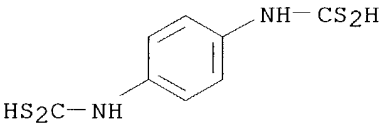
AB The synthesis of ten chelating reagents of bisdithiocarbamates and dixanthates, and their UV, visible and IR absorption spectra, NMR spectra, chelate formation and application to microanal. of metals are reported.

L21 ANSWER 13 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1983:531439 HCAPLUS
DOCUMENT NUMBER: 99:131439
TITLE: Non-silver x-ray recording process
INVENTOR(S): Robillard, Jean J.
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 11 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4394439	A	19830719	US 1981-267685	19810528

PRIORITY APPLN. INFO.: US 1981-267685 19810528

IT **46350-14-5D**, copper complexes, polymers
RL: USES (Uses)
(x-ray imaging material containing dye former and, thermal development of image in)
RN 46350-14-5 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis- (9CI) (CA INDEX NAME)



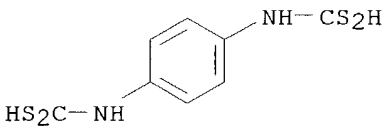
AB Heat developing imaging material for radiog. comprises an x-ray sensitive polymer, a dye former, and a complexing agent. Image formation process involves imagewise x-ray exposure to decompose the polymer to provide free radicals (latent image) and heat development during which the radicals react with the dye former to provide a dye and complexation of the dye takes place to provide a dye complex image. Thus, a 3 mm thick polyhexafluoropropylene sheet was coated with a composition containing 1-methyl-2-phenylindolizine 0.5, 4-aminodiphenylamine 0.4, Et cellulose 5, Pb naphthenate 0.65 g, and CH2Cl2 100 cm3 to a wet thickness of 10 μ, imagewise exposed to x-ray radiation (150 kV, 6 mA) at 50 μm for 5 s, and developed at 110° to give a black image.

L21 ANSWER 14 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1977:134883 HCAPLUS

DOCUMENT NUMBER: 86:134883
TITLE: Alkylenebis(dithiolcarbamate) bactericides and fungicides
INVENTOR(S): Aoyama, Keiji; Tsugi, Michihisa; Akadaira, Rokuro; Kuriyama, Hiromichi
PATENT ASSIGNEE(S): Denki Kagaku Kogyo K. K., Japan
SOURCE: Jpn. Tokkyo Koho, 5 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51042174	B4	19761113	JP 1970-64599	19700723

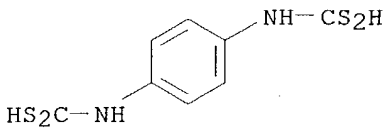
PRIORITY APPLN. INFO.: JP 1970-64599 19700723
IT **46350-14-5**
RL: BIOL (Biological study)
(bactericidal and fungicidal activity of ethylenebis(dithiocarbamate) and)
RN 46350-14-5 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis- (9CI) (CA INDEX NAME)



AB Thiuram disulfides are used as bactericides and fungicides. The combination of ethylenebis(dithiocarbamate) [34731-32-3] and either 2-methylethylenebis(dithiocarbamate) [35449-52-6], 2-ethylethylenebis(dithiocarbamate) [35449-55-9], 2-propylethylenebis(dithiocarbamate) [35449-53-7], or p-phenylenebis(dithiocarbamate) [**46350-14-5**] were effective against Alternaria moli, Xanthomonas citri, Diaporthe citri, and Pseudoperonospora cubensis. For example, a mixture of ethylenebis(dithiocarbamate) and 2-methylethylenebis(dithiocarbamate) (1:1) sprayed on cucumbers at 1 ppm decreased P. cubensis infection by 86%.

L21 ANSWER 15 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1977:90285 HCAPLUS
DOCUMENT NUMBER: 86:90285
TITLE: Sulfur-containing polymers. XVIII. Preparation and properties of thiuram polysulfide polymers
AUTHOR(S): Kobayashi, Norio; Osawa, Akiko; Kimoto, Hisao; Hayashi, Yasuo; Shimizu, Kiwako; Fujisawa, Tamotsu
CORPORATE SOURCE: Sagami Chem. Res. Cent., Sagamihara, Japan
SOURCE: Journal of Polymer Science, Polymer Chemistry Edition (1977), 15(1), 39-49
CODEN: JPLCAT; ISSN: 0449-296X
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **14549-85-0P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 14549-85-0 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, disodium salt (9CI) (CA INDEX NAME)

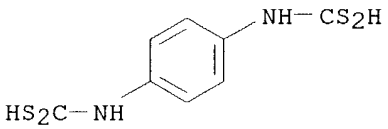


●2 Na

IT **61988-28-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, interfacial)
RN 61988-28-1 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, disodium salt, polymer with sulfur chloride (S2Cl2) (9CI) (CA INDEX NAME)

CM 1

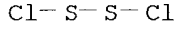
CRN 14549-85-0
CMF C8 H8 N2 S4 . 2 Na



●2 Na

CM 2

CRN 10025-67-9
CMF Cl2 S2



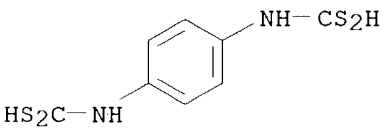
AB Thiuram polysulfide polymers [(NHRNHC(:S)SxC(:X))n, R = (CH2)2, (CH2)4, (CH2)6, piperazyl, p-CH2C6H4CH2, or p-C6H4, x = 2-4] were prepared in 70-99% yield from the corresponding alkali metal bisdithiocarbamates either by oxidation with (NH4)2S2O8 or by interfacial polycondensation with SCl2 or S2Cl2. Polymers based on aliphatic primary diamines are more stable than those from aromatic diamines. Thus, the piperazine-based polymer has the

highest heat resistance (decomposition point 171°), whereas polymers derived from p-phenylenediamine are thermally unstable and decompose at 60-70° with the liberation of S. The disodium or dipotassium bisdithiocarbamates were prepared from aliphatic or aromatic diamines, CS2, and KOH or NaOH in H2O-EtOH or EtOH solns.

L21 ANSWER 16 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1975:497257 HCAPLUS
DOCUMENT NUMBER: 83:97257
TITLE: Aromatic 2-imino-1,3-dithietanes
INVENTOR(S): Reger, David W.; Nigro, Matthew M.; Brand, William W.; Drabb, Thomas W., Jr.
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: S. African, 28 pp.
CODEN: SFXXAB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 7309658	A	19741127	ZA 1973-9658	19731221
BR 7401376	A0	19741126	BR 1974-1376	19740222

PRIORITY APPLN. INFO.: US 1973-336642 19730228
IT **46350-14-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cycloaddn. reaction of, with methylene dibromide, iminodithietanes from)
RN 46350-14-5 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis- (9CI) (CA INDEX NAME)



GI For diagram(s), see printed CA Issue.
AB Approx. 70 insecticides I (R1, R2, R3, R4, R5 = e.g., H, Cl, Br, OMe, OEt, NCS, Ph, Bu, OC6H4Cl-4, SMe) were prepared by treatment of C6R1R2R3R4R5NCS2- Et3NH+ with CH2Br2 in Me2SO containing Et3N followed by addition of (NH4)2S. Thus, 4-MeC6H4NCS2- Et3NH+ reacted with CH2Br2 to give I (R1 = R2 = R4 = R5 = H, R3 = Me), which was effective against the eggs of southern armyworm, Mexican bean beetle, southern corn rootworm and two-spotted spidermites at 100 ppm.

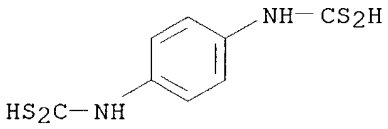
L21 ANSWER 17 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1972:8953 HCAPLUS
DOCUMENT NUMBER: 76:8953
TITLE: Light-sensitive material for diazo copying
INVENTOR(S): Inoue, Eiichi; Yamase, Toshihiro
PATENT ASSIGNEE(S): Canon K. K.
SOURCE: Ger. Offen., 23 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent

LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2117044	A	19711021	DE 1971-2117044	19710407
DE 2117044	B2	19760715		
DE 2117044	C3	19770303		
JP 49018809	B4	19740513	JP 1970-29875	19700408
US 3778274	A	19731211	US 1971-132074	19710407

PRIORITY APPLN. INFO.: JP 1970-29875 19700408

IT **14549-85-0**
RL: USES (Uses)
(light-sensitive compns. containing diazonium compds. and, for diazo process)
RN 14549-85-0 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

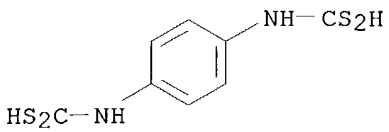
AB Both the intrinsic and spectral sensitivities of diazo copying materials are improved by adding a dithiocarbamate. Thus, paper was coated with a mixture of 10 g 4-benzoylamino-3,5-diethoxybenzenediazonium chloride, 10 g thiourea, and 60 g hexamethyleneammonium hexamethylenedithiocarbamate (I) and H2O to 1 l. On exposure to fluorescent light the sensitivity of a paper containing I was twice that of a control paper not containing I.

L21 ANSWER 18 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1966:494133 HCAPLUS
DOCUMENT NUMBER: 65:94133
ORIGINAL REFERENCE NO.: 65:17639c-f
TITLE: Desulfurized polymeric bisthiuram disulfide fungicides
INVENTOR(S): Martin, Lothar; Chipman, Harold R.; Gates, Charles W.
PATENT ASSIGNEE(S): Dominion Rubber Co., Ltd.
SOURCE: 39 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 735439		19660531	CA	19660506

IT **14549-85-0**, p-Benzenedicarbamic acid, tetrathio-, disodium salt
(desulfurized, fungicidal activity of)
RN 14549-85-0 HCAPLUS

CN Carbamodithioic acid, 1,4-phenylenebis-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

AB Fungicides more active than nabam, zineb, or oxidized nabam were prepared by oxidation of nabam or other thiuram disulfides at pH 6-8 followed with NaCN in H2O or MeOH. The poly(ethylenebisthiuram sulfide) products are yellow and m. 155-85° (decomposition). No definite structure has been assigned; x-ray diffraction patterns and ir spectra are reproduced. The oxidation process is expressed as n[MS(S:)CNHRNHC(:S)SM] + nO + 2nH+ → [-S(S:)CNHRNHC(:S)S-]n + 2nM+ + nH2O. Thus, 670 g. of a 19% aqueous di-Na ethylenedithiocarbamate and 670 ml. of an aqueous solution containing 125 g. NH4 persulfate were dropped simultaneously into 750 ml. H2O at 16-19°. The addition at pH 6-6.6 took 2 hrs. After the slurry reached pH 5, it was agitated for 0.5 hr., and filtered. The filter cake was mixed with 125 ml. H2O and 75 ml. Me2CO. In 1.5 hrs., 75 ml. of an aqueous solution containing 30 g. NaCN was added at <25° and pH 8. The mixture was agitated for 1 hr., and the precipitate filtered, washed, and dried at 50-5° to give 65 g. yellow product containing S 51.3, N 17.5, C 27.3, and H 3.12%. Similar products were prepd, using di-Na 1,2-propylenebisdithiocarbamate, tri-Na diethylenebisdithiocarbamate, or di-Na p-phenylenebisdithiocarbamate in place of nabam. Simultaneous oxidation and desulfurization is reported. The desulfurized nabam was effective as a 30 ppm. spray on tomatoes infected with Alternaria solani, as a corn seed treatment at 4-16 oz./100 lb. seed against Pythium ultimum, as a 50-ppm. spray on pinto beans sprayed with Uromyces phaseoli, and systemically at 100 ppm. against Verticillium albo-atrum on tomatoes.

L21 ANSWER 19 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1966:494128 HCAPLUS
DOCUMENT NUMBER: 65:94128
ORIGINAL REFERENCE NO.: 65:17638b-d
TITLE: Pesticidal alkaloid salts
PATENT ASSIGNEE(S): Tokyo Organic Chemical Industries, Ltd.
SOURCE: 5 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

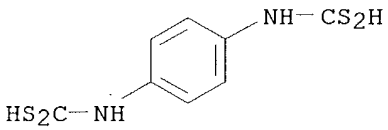
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1040165		19660824	GB	
PRIORITY APPLN. INFO.:			JP	19630305

IT **13624-76-5**, p-Benzenedicarbamic acid, tetrathio-, compound with

nicotine (1:1)
(as pesticide)
RN 13624-76-5 HCAPLUS
CN Nicotine, mono(tetrathio-p-benzenedicarbamate) (8CI) (CA INDEX NAME)

CM 1

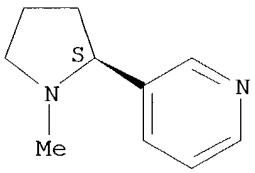
CRN 46350-14-5
CMF C8 H8 N2 S4



CM 2

CRN 54-11-5
CMF C10 H14 N2

Absolute stereochemistry. Rotation (-).



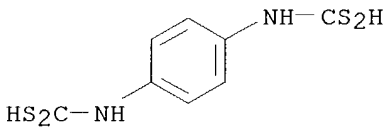
AB The dithiocarbamate salts of nicotine, nornicotine, and anabasine have fungicidal, bactericidal, insecticidal, and nematocidal activities. For example, a mixture of 2.2 moles CS2 and 540 g. of H2O are placed in a flask. One mole of 56% (CH2NH2)2 is added dropwise, the temperature being maintained at 20-45°. Nicotine extract (2 moles of 95% nicotine) is added, the mixture stirred 1 hr. at 40-5°, and the pH adjusted from 7.8 to 8.8-9.0 with gaseous NH3. The resulting liquid contains 45% nicotine ethylenebisdithiocarbamate (I). The solution of I diluted 10,000-fold eradicated Ophiobolus miyabeanus, Alternaria kikuchiana, Xanthomonas oryzae, X. citri, and Coli communis (Escherichia coli). Aphids, lace bugs, thrips, radish webworms, rice stem borers, rice leaf miners, peach leaf miners, cabbage sawfly, red spider mites, and pear suckers were completely killed by a solution of I diluted 2000-fold.

L21 ANSWER 20 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1966:52201 HCAPLUS
DOCUMENT NUMBER: 64:52201
ORIGINAL REFERENCE NO.: 64:9766f-h
TITLE: Organoantimony compounds
PATENT ASSIGNEE(S): M&T Chemicals Inc.
SOURCE: 10 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6505219		19651025	NL	

PRIORITY APPLN. INFO.: US 19640424
IT **46350-14-5**, p-Benzenedicarbamic acid, tetrathio-
(bis(diphenylantimony) derivative)
RN 46350-14-5 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis- (9CI) (CA INDEX NAME)

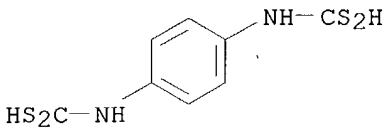


AB Organoantimony chlorides were treated with the Na salts of carboxylic acids to give the organoantimony carboxylates which show antibacterial and fungicidal activity. For example, a solution of 135 g. PhSbCl2 in 500 ml. EtOH was added over 100 min. to a refluxing solution of AcONa trihydrate in 2500 ml. 95% EtOH, the whole was refluxed 1.5 hrs. the precipitate filtered off, and the filtrate evaporated to give 125 g. of a precipitate which was extracted with one l. C6H6; evaporation gave 62 g. diphenylantimony acetate, m. 128-31°. Similarly, Na p-chlorobenzoate (I) and PhSbCl2 gave the corresponding benzoate; octylantimony dichloride and I gave dioctylantimony p-chlorobenzoate. Cf. preceding abstrs.

L21 ANSWER 21 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1966:52200 HCAPLUS
DOCUMENT NUMBER: 64:52200
ORIGINAL REFERENCE NO.: 64:9766e-f
TITLE: Organoantimony compounds
PATENT ASSIGNEE(S): M & T Chemicals Inc.
SOURCE: 15 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

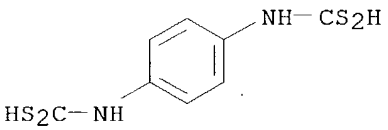
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6505218		19651025	NL	

PRIORITY APPLN. INFO.: US 19640424
IT **46350-14-5**, p-Benzenedicarbamic acid, tetrathio-
(bis(diphenylantimony) derivative)
RN 46350-14-5 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis- (9CI) (CA INDEX NAME)



AB Dimethylammonium dimethyldithiocarbamate (16.6 g.) in 450 ml. tetrahydrofuran (THF) was added dropwise over 30 min. to a refluxing solution of 31.1 g. diphenylantimony chloride (I) in 200 ml. THF, the whole was then refluxed 3.5 hrs. and filtered hot to remove the dimethylamine-HCl. The filtrate was concentrated to 100 ml. and 400 ml. (iso-Pr)2O added to give a precipitate of diphenylantimony dimethyldithiocarbamate, m. 116-16.5°. Similarly, ammonium propyldithiocarbamate and phenylantimony dichloride gave phenylantimonybis(propyldithiocarbamate), diethylammonium diethyldithiocarbamate and dibutylantimony chloride gave dibutylantimony diethyldithiocarbamate; I and disodium ethylenebisdithiocarbamate gave bis(diphenylantimony) ethylenebisdithiocarbamate. The products show anti-bacterial activity. Cf. preceding and following abstrs.

L21 ANSWER 22 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1963:403916 HCAPLUS
DOCUMENT NUMBER: 59:3916
ORIGINAL REFERENCE NO.: 59:771g-h
TITLE: Chelate polymers. V. Chelate polymers of bis(dithiocarbamic acids, and metals
AUTHOR(S): Terent'ev, A. P.; Rukhadze, E. G.; Rode, V. V.
SOURCE: Vysokomolekulyarnye Soedineniya (1962), 4, 821-7
CODEN: VMSDA8; ISSN: 0042-9368
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
IT **46350-14-5**, p-Benzenedicarbamic acid, tetrathio- (metal complexes, chelate polymers)
RN 46350-14-5 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis- (9CI) (CA INDEX NAME)

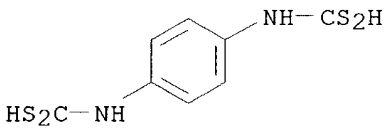


AB Chelate polymers were synthesized by the reaction of bivalent acetates of Ni, Zn, Co, and Cu with the di-Na salts of ethylene-, hexamethylene-, p-phenylene-, and p,p'-biphenylylenebis(dithiocarbamic acids) (I). The di-Na salts of I were prepared from equimolar amts. of the corresponding diamines, CS2, and NaOH at 0° in a H2O-dioxane solution During preparation of the Cu chelate polymer, Cu++ is reduced to Cu+ and S and COS are formed. CuOAc continues to react with more Na salt of I to form the chelate polymer. This mechanism is confirmed by determination of the COS formed.

The Cu chelate polymer is a cross-linked structure. It and the Ni, Zn, and Co polymers are fine, colored powders. Their properties (mol. weight and coefficient of polymerization) are not changed essentially by varying the hydrocarbon group in I. When the hydrocarbon group in I is ethylene or

hexamethylene, chelate polymers of Ni, Zn, and Co contain a very small amount of cyclic structure. The radiotracer method with Br82 is used for determination of mol. weight, polymer structure, and degree of polymerization. This method confirms the conclusion about formation of a cyclic structure.

L21 ANSWER 23 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1962:469901 HCAPLUS
DOCUMENT NUMBER: 57:69901
ORIGINAL REFERENCE NO.: 57:13959f-i
TITLE: Catalytic properties of chelate polymers
AUTHOR(S): Boreskov, G. K.; Keier, N. P.; Rubtsova, L. F.; Rukhadze, E. G.
CORPORATE SOURCE: Inst. Catalysis, Acad. Sci. U.S.S.R., Novosibirsk
SOURCE: Doklady Akademii Nauk SSSR (1962), 144, 1069-72
CODEN: DANKAS; ISSN: 0002-3264
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
IT **46350-14-5**, p-Benzenedicarbamic acid, tetrathio-
(metal complexes, catalytic properties of polymeric)
RN 46350-14-5 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis- (9CI) (CA INDEX NAME)



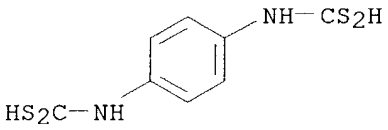
AB The influence of the nature of chelating metal, chemical composition of ligands, and organic units and side groups of the chain of chelate polymers on catalytic activity were measured. Polychelates of Cu, Ni, Fe, Pd, Co, Zn, and Cd with tetrafunctional compds. were studied. The catalytic activity was determined by the rate and selectivity of decomposition of N2H4 (eith0er to N and H or to NH3 and N), iso-PrOH, and HCOOH. The catalytic activity decreases in the series Cu, Ni, Pd, Co, Fe; Zn and Cd chelates are inactive. The catalytic activity depends also on the structure of the chelate nodes; for Cu chelates, it decreases in the series (N,S), (S,S), (N,O), (O,O). The structure of the organic component of metal chelates influences the catalytic selectivity. The resp. monomeric chelates were mostly inactive. The catalytic activity of chelate polymers is higher by an order of 2 than that of inorg. Cu semiconductors. It depends on the electronic state of the metal in the chelate node and cannot be related to the electrocond. of the polymer.

L21 ANSWER 24 OF 24 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1959:11664 HCAPLUS
DOCUMENT NUMBER: 53:11664
ORIGINAL REFERENCE NO.: 53:2157e-h
TITLE: Aromatic isothiocyanates
PATENT ASSIGNEE(S): Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 793802		19580423	GB	

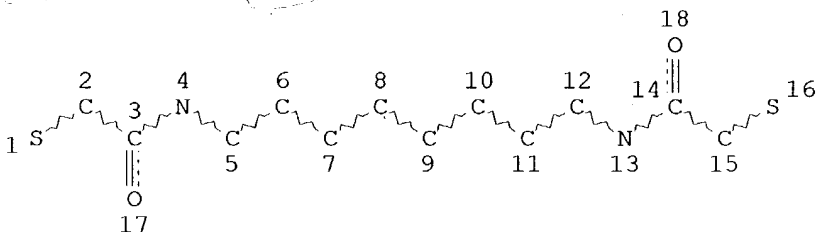
IT **46350-14-5**, p-Benzenedicarbamic acid, tetrathio- (derivs.)
RN 46350-14-5 HCAPLUS
CN Carbamodithioic acid, 1,4-phenylenebis- (9CI) (CA INDEX NAME)



AB Isothiocyanates (I) are prepared by the reaction of an NH4 N-aryldithiocarbamate with an α-halogenated carboxylic acid salt, which yields a compound of the general formula RNHC(S)SR'CO2M, where R is aromatic, R' is alkylene or aralkylene, and M is a metal ion. This is then converted into an aromatic I by treating with a salt of a metal that has a reduction potential higher than Al. Thus 112 g. PhNH2 added dropwise to a mixture of 180 cc. NH4OH and 108 g. CS2 while cooling in ice gave 185 g. PhNHC(S)SNH4; this was suspended in 1 l. H2O and a solution of 100 g. ClCH2CO2H neutralized with NaOH added at 30° and pH 7, the mixture allowed to stand 1 hr., and 75 g. ZnCl2 added with sufficient NaOH to maintain pH 7. The oily layer is separated with Et2O, dried, and distilled to yield 105 g. PhNCS, b12 100-1°. A precipitate of Zn(SCH2CO2Na)2 is recovered from the aqueous solution Similarly, 1.08 kg. p-(H2N)2C6H4, 3.7 l. NH4OH, 1.71 kg. CS2, and 1.3 l. H2O 1-3 hrs. at 25-30° yield 92% NH4 p-phenylene bis(dithiocarbamate), which is suspended in 3.5 l. H2O and treated with 1.9 kg. ClCH2CO2Na as before. Adding 2.72 kg. ZnCl2 in 17.1 l. H2O precipitates 3.78 kg. Zn p-phenylene bis(S-carboxymethyl dithiocarbamate), useful as a fungicide. By treating this product with NaOH to pH 7, 1.36 kg. p-phenylene diisothiocyanate is formed, m. 130-1°. Similarly are prepared the following isothiocyanates (% yield, m.p., and the respective amine given): p-acetylaminophenyl, 73, 192-3°, N-monoacetyl-p-phenylenediamine; p-ethoxyphenyl, 64, 60-1°, p-phenetidine; p-chlorophenyl, 68, 47°, p-ClC6H4NH2; p-bromophenyl, 55, 58-9° p-BrC6H4NH2; and α-naphthyl, 54, 56-7°, α-C10H7NH2.

=> d que stat l6
L3 STR

as on p. 4



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE
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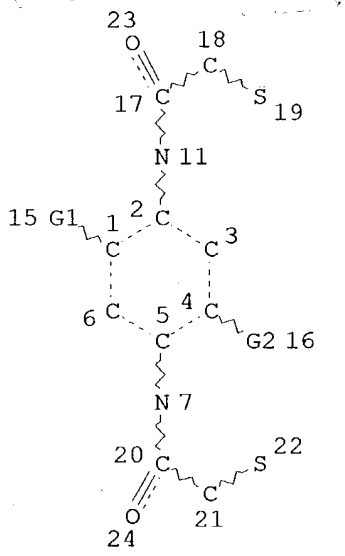

$G_1 = R_1$
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alkyl

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GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE
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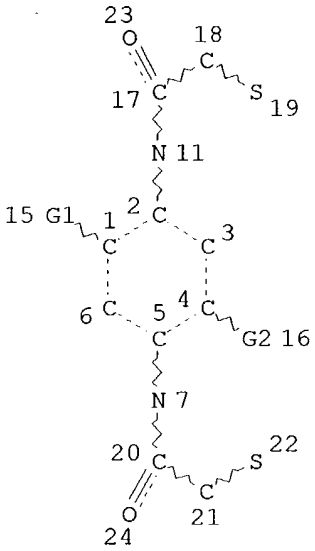

as above

VAR G1=AK/CL
VAR G2=AK/CL
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE
L17 28 SEA FILE=MARPAT SSS FUL L15 search in Marpat

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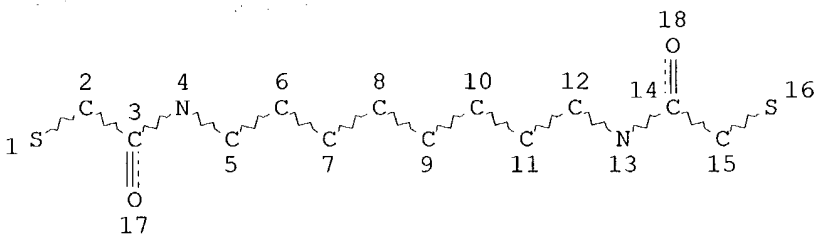
L3 STR

"1,8-dimercaptoacetamido-octane"



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GRAPH ATTRIBUTES:

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search in Marpat

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SEARCH TIME: 00.00.34

=> dup rem l21 l23

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PROCESSING COMPLETED FOR L23
L31 55 DUP REM L21 L23 (0 DUPLICATES REMOVED)
ANSWERS '1-24' FROM FILE HCAPLUS
ANSWERS '25-55' FROM FILE MARPAT

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YOU HAVE REQUESTED DATA FROM 31 ANSWERS - CONTINUE? Y/(N):y

L23 ANSWER 1 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

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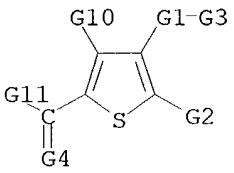
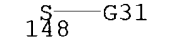
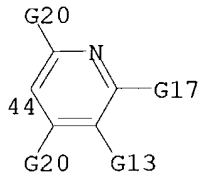


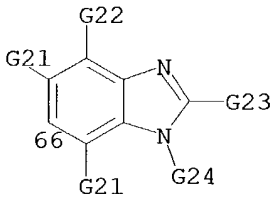
G1 = S(O) / SO2
G2 = alkyl<(1-4)> / F / Cl / Br / I / NH2 /
alkylthio<(1-6)> / alkenylthio<(2-6)> / alkoxy<(1-6)> / CF3 /
SO2Me / SCH2Ph / (SC 148)

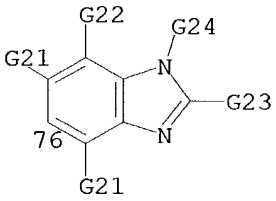


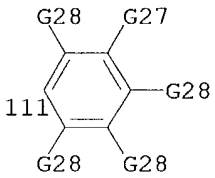
G3 = Ph (SO (1-) G12) / naphthyl (SO (1-) G12) /
pyridyl / imidazolyl / thiazolyl / furyl / thienyl /
benzothiazolyl / pyrazolyl / pyrimidinyl / benzimidazolyl /
benzofuranyl / indolyl / benzothienyl /
Hy<EC (14) A (1) Q (1) O (0) OTHERQ, AR (1-),

BD (10) N (1) D, RC (3), RS (3) E6> (SO (1-2) G34) /
heteroaryl<EC (-9) A (1-2) Q (0-2) N (0-1) O (0-1) S (0)
OTHERQ, RC (1-2)> (SO) / (SC 44 / 66 / 76 / 111)









G4 = NH / 14

G5 = alkyl<(1-4)> / aryl<EC (6-10) C, RC (1-2)> /
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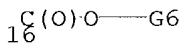
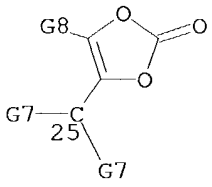
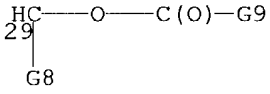
alkyl<(2-6)> (SR alkylamino<(1-4)>) /
alkyl<(2-6)> (SR dialkylamino<(1-4)>) /
alkyl<(1-4)> (SR CO2H) / CN / NO2 / NH2 / alkoxy<(1-4)> /
OH / CO2H / 16 / (SC Me / Et / Pr-n / Bu-n / OMe / OEt)

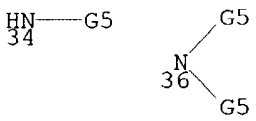


G6 = OH / alkoxy<(1-4)> / CN / alkoxycarbonyl<(1-4)> /
alkyl<(1-4)> / cycloalkyl<(3-8)> / Ph / CH2Ph / 25 / 29 /
(SC Me / Et / Pr-n)



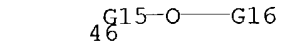


G7 = H / Ak<EC (1-6) C, BD (0-) D (0) T> / Ph
G8 = H / alkyl<(1-6)> / alkenyl<(2-6)> / Ph
G9 = alkyl<(1-4)> (SR (1-) aryl<EC (6-10) C, RC (1-2)>) /
alkyl<(1-6)>
G10 = H / F / Cl / NH2
G11 = NH2 / 34 / 36

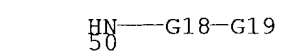


G12 = R / (SC alkyl<(1-6)> / alkoxy<(1-6)> /
alkenyl<(2-6)> / F / Cl / Br / I / OH / Ph / OPh / NH2 /

NHPh)
G13 = F / Cl / Br / I / Ph (SO (1-2) G14)
G14 = alkyl<(1-6)> / 46

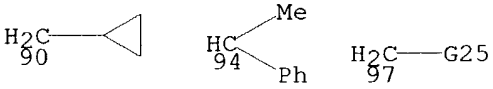


G15 = alkylene<(1-4)> (SO CO2H)
G16 = alkyl<(1-4)> (SO CO2H)
G17 = H / NH2 / F / Cl / Br / I / OPh / alkylamino<(1-6)> / 50

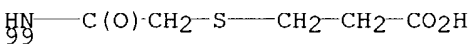


G18 = alkylene<(1-6)>
G19 = Ph (SO SO2NH2) / pyridyl (SO alkyl<(1-4)> (SR (1-) G33)) / 2-tetrahydrofuryl / 53 / imidazolyl / morpholinyl / OH / thienyl (SR alkyl<(1-4)>) / pyrimidinyl (SR NH2)

G20 = H / F / Cl / Br / I / alkyl<(1-4)>
G21 = H / F / Cl / Br / I / alkyl<(1-4)> / (SC Me / Et)
G22 = H / F / Cl / Br / I / tolyl
G23 = H / alkyl<(1-4)> / (SC Me / Et)
G24 = H / alkyl<(1-6)> / alkenyl<(2-6)> / 90 / Ph / 94 / **97**

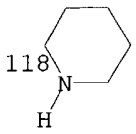


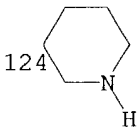
G25 = pyridyl / isoxazolyl (SO (1-2) Me) / **Ph (SO (1-2) G26)**
G26 = F / **Cl** / Br / I / NO2 / NH2 / **99**

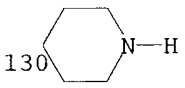


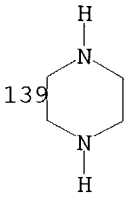
G27 = Ph (SO (1-5) G29) / 179 / 187 / naphthyl / thienyl / furyl / imidazolyl / oxazolyl / isoxazolyl / pyridyl / pyrimidinyl / benzothienyl / benzofuranyl / benzimidazolyl / quinolinyl / isoquinolinyl / pyrazinyl / piperidino / piperazino / 118 / 124 / 130 / 139 / Cb<EC (10) C, AR (1-), BD (ALL) N, RC (2), RS (2) E6> (SO) / heteroaryl<EC (-10) A (1-2) Q (1-2) N (0-1) O (0-1) S (0) OTHERQ, RC (1-2)> (SO) / Hy<EC (6) A (1-2) Q (1-2) N (0) OTHERQ, AR (0), BD (ALL) N, RC (1), RS (1) E6> (SO) /

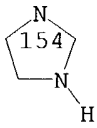
(SC dialkylamino<(1-6)> / pyrrolidino / morpholino / 154 / 159 / 169)

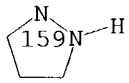


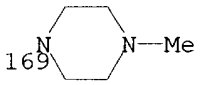


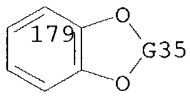


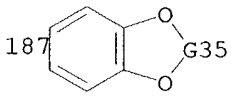




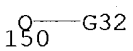




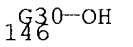




G28 = H / alkyl<(1-4)> / OH / alkoxy<(1-4)> / alkenyloxy<(2-4)> / OPh / OCH2Ph / F / Cl / Br / I / NH2 / NO2 / (SC Me / 150)



G29 = R / (SC alkyl<(1-4)> (SO (1-) G33) / alkoxy<(1-4)> (SO (1-) G33) / 146 / alkenyl<(2-4)> / alkylcarbonyl<(1-4)> / CN / NH2 / alkylamino<(1-4)> / dialkylamino<(1-4)> / CHO / alkoxycarbonyl<(1-4)> (SO (1-) G33) / Ph / OPh / Ph (SR OPh) / biphenylyl / F / Cl / Br / I / CO2H / NO2 / alkylsulfonyl<(1-4)> / alkylsulfinyl<(1-4)> / alkylthio<(1-4)> / OH / CONH2 / alkylaminocarbonyl<(1-4)> / dialkylaminocarbonyl<(1-4)>)



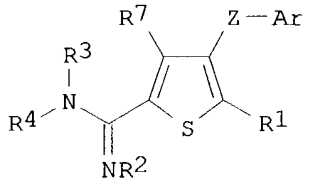
G30 = alkylene<(1-4)> (SO (1-) G33)
G31 = Me / Et / CH2CH=CH2
G32 = Me / Et / CH=CH2
G33 = F / Cl / Br / I
G34 = R / (SC alkyl<(1-6)> / alkoxy<(1-6)> / alkenyl<(2-6)> / F / Cl / Br / I / OH / Ph / OPh / NH2)
G35 = (1-2) CH2
MPL: claim 1
NTE: or solvates, hydrates or pharmaceutically acceptable salts

ACCESSION NUMBER: 140:16639 MARPAT
TITLE: Preparation of novel thiophene amidines for treating complement-mediated diseases and conditions
INVENTOR(S): Subasinghe, Nalin; Khalil, Ehab; Leonard, Kristi; Ali, Farah; Hufnagel, Heather Rae; Travins, Jeremy M.; Ballentine, Shelley K.; Wilson, Kenneth T.; Cummings, Maxwell D.; Pan, Wenxi; Gushue, Joan; Meegalla, Sanath; Wall, Mark; Chen, Jinsheng; Rudolph, M.

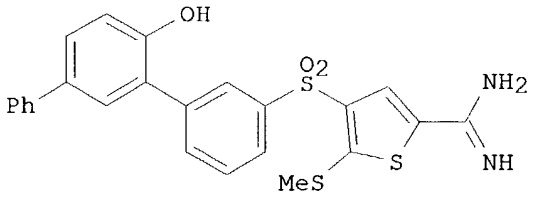
Jonathan; Huang, Hui
PATENT ASSIGNEE(S): 3-Dimensional Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 463 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003099805	A1	20031204	WO 2003-US16888	20030528
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004009995	A1	20040115	US 2003-445817	20030528
PRIORITY APPLN. INFO.:			US 2002-383130P	20020528

GI



I



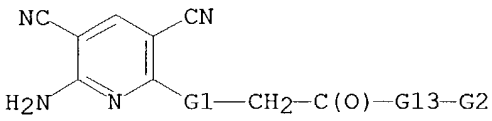
II

AB The title compds. [I; Z = SO, SO2; R1 = alkyl, halo, NH2, alkylthio, etc.; Ar = Ph, naphthyl, pyridyl, imidazolyl, etc.; R2-R4 = H, alkyl, aryl, etc.; R7 = H, Cl, F, NH2], useful for treating the symptoms of an acute or chronic disorder mediated by the classical pathway of the complement cascade, were prepared and formulated. E.g., a 4-step synthesis of II (starting from 4-hydroxybiphenyl) which showed Ki in the range 0.006 to 0.023 μM, was given.

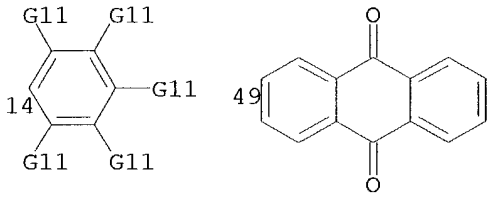
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 2 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

MSTR 1



G1 = **S** / S(O) / SO2
G2 = **14** / (SC 2-naphthyl / 49)



G3 = OH / **25** / aryl (SO) / heteroaryl<EC (0-) N (0-) O (0-) S> (SO)

25 C(O)—G4

G4 = OH / NH2 / 27 / Hy<EC (3-7) A (1) Q (1) N (0) OTHERQ, AN (1) N, BD (ALL) SE, RC (1), RS (1) M3 (1) X7>

27 G5—G6

G5 = O / NH / 29

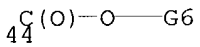
29 N—G6

G6 = alkyl<(1-8)> / alkenyl<(2-8)> / alkyl<(1-4)> (SR (1-) G7) / aryl (SO) / heteroaryl<EC (0-) N (0-) O (0-) S> (SO)
G7 = aryl (SO) / heteroaryl<EC (0-) N (0-) O (0-) S> (SO) / CO2H / 41

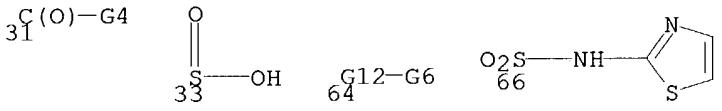
41 C(O)—O—G8

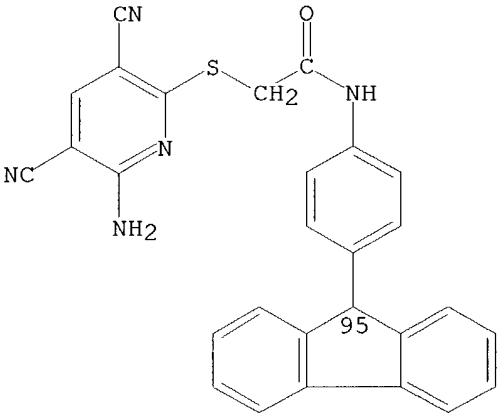
G8 = alkyl<(1-8)> / alkenyl<(2-8)> / alkyl<(1-4)> (SR (1-) G9) / aryl (SO) / heteroaryl<EC (0-) N (0-) O (0-) S> (SO)
G9 = aryl (SO) / heteroaryl<EC (0-) N (0-) O (0-) S>

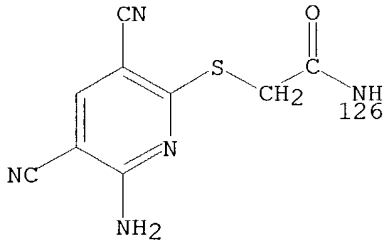
(SO) / CO2H (SO)
G10 = alkyl<(1-4)> / OH / OMe / 44 / CO2H / F / Cl / Br / I / CF3

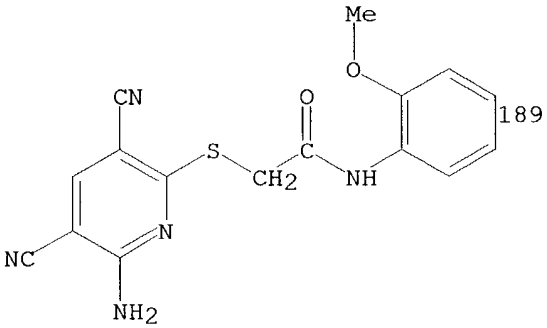


G11 = H / **alkyl<(1-8)> (SO (1-) G3)** / alkenyl<(2-8)> / 31 / CN / CF3 / SH / 33 / 64 / aryl (SO (1-) G10) / heteroaryl<EC (0-) N (0-) O (0-) S> (SO (1-) G10) / F / Cl / Br / I / OH / alkoxy<(1-8)> / NH2 / NO2 / Hy<EC (3-7) A (1) Q (1) N (0) OTHERQ, AN (1) N, BD (ALL) SE, RC (1), RS (1) M3 (1) X7> / (SC SMe / NHCOMe / OMe / Me / 66 / SO2NH2 / OEt / OBu-n / **126** / 95 / 189)









G12 = NH / 40 / S / SO2

40 N——G6

G13 = **NH** / (SC 73)

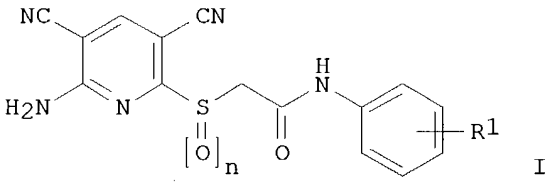
73 N——Ph

MPL: claim 1

ACCESSION NUMBER: 139:381381 MARPAT
TITLE: Preparation of antibacterial pyridinedicarbonitriles
INVENTOR(S): Grant, Richard; Latham, Christopher J.; Thomson, Samantha; Zhao, Lihua
PATENT ASSIGNEE(S): Pantherix Ltd., UK
SOURCE: Brit. UK Pat. Appl., 18 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2388593	A1	20031119	GB 2002-10898	20020513
PRIORITY APPLN. INFO.:			GB 2002-10898	20020513

GI



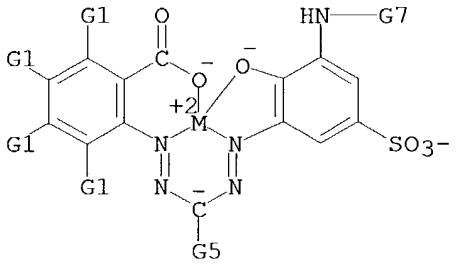
I

AB The title compds. [I; n = 0-2; R1 = H, alkyl, CN, aryl, etc.] which have antibacterial activity, especially against gram pos. bacteria, were prepared Thus, reacting 2-amino-3,5-dicyano-6-mercaptopyridine with 2-chloro-N-(2,5-dimethylphenyl)acetamide in the presence of K2CO3 in DMF afforded 19% I [n = 0; R1 = 2,5-Me2C6H3] which showed IC50 in the range of 1-50 μM against isolated Streptococcus pneumoniae chorismate synthase. Pharmaceutical composition comprising the compound I is claimed.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

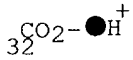
L23 ANSWER 3 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

MSTR 6

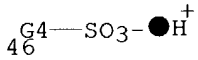


G9 H+

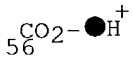
G1 = (-1) 32 / (-1) G22 / H



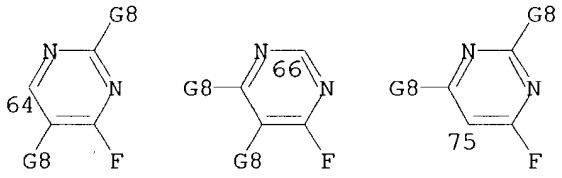
G2 = Cl / Br / 46



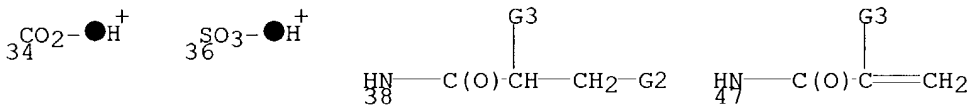
G3 = H / Cl / Br
G4 = O / **S**
G5 = **Ph (SO (1-2) G6)**
G6 = **(-1) 56** / (-1) G22

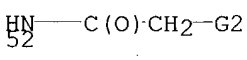


G7 = 64 / 66 / 75



G8 = H / F
G9 = Cu
G22 = 34 / 36 / NHCOMe / 38 / 47 / **52**





MPL: claim 3
NTE: substitution is restricted

ACCESSION NUMBER: 138:339644 MARPAT
TITLE: Trichromatic dyeing process and reactive dye mixtures used therein
INVENTOR(S): Gisler, Markus; Wald, Roland
PATENT ASSIGNEE(S): Clariant International Ltd., Switz.
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003033600	A1	20030424	WO 2002-IB4216	20021014

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

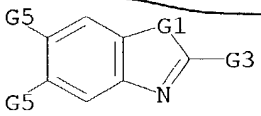
PRIORITY APPLN. INFO.: GB 2001-24842 20011017

AB The invention relates to a process for the trichromatic dyeing or printing of hydroxy-group-containing or nitrogen-containing organic substrates with dye mixts.
and also to the mixts. of red, orange or yellow, and blue reactive dyes and to hydroxy-group-containing or nitrogen-containing organic substrates dyed or
printed therewith. Dyeing and prints with high wet fastness are obtained. An example for cotton dyeing was given which used red and yellow azo dyes containing vinyl sulfone and chlorotriazine groups and a blue formazan Cu complex dye with a difluoropyrimidyl group.

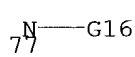
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 4 OF 31 MARPAT COPYRIGHT 2004 ACS on STN
(ALL HITs ARE ITERATION INCOMPLETES)

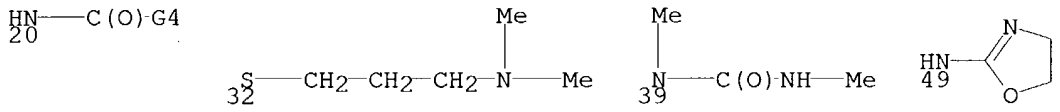
MSTR 3 ITERATION INCOMPLETE



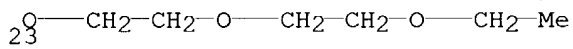
G1 = O / S / 77



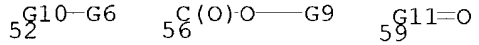
G3 = 20 / NH2 / NHC(NH)NH2 / 32 / 39 / 49



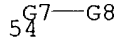
G4 = NHMe / NHPh / Me / OH / OEt / OMe / NH2 / 23



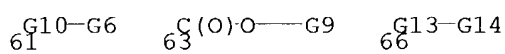
G5 = H / X / NO2 / OH / SH / 52 / 56 /
Ak<EC (1-10) C, BD (0-) D (0) T> (SO (1-) G12) /
Cb<EC (3-10) C, BD (0-) D (0) T> (SO (1-) G12) / 59



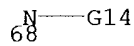
G6 = aryl / heteroaryl<EC (0-) O (0-) S (0-) N> /
Hy<EC (0-) O (0-) S (0-) N, AR (0)> / 54



G7 = alkylene<(1-10)> / cycloalkylene<(3-10)>
G8 = H / aryl / heteroaryl<EC (0-) O (0-) S (0-) N> /
Hy<EC (0-) O (0-) S (0-) N, AR (0)>
G9 = alkyl<(1-10)> / cycloalkyl<(3-10)>
G10 = O / S / S(O) / SO2
G11 = Ak<EC (1-10) C, BD (0-) D (0) T> (SO) /
Cb<EC (3-10) C, BD (0-) D (0) T> (SO)
G12 = aryl / heteroaryl<EC (0-) O (0-) S (0-) N> /
Hy<EC (0-) O (0-) S (0-) N, AR (0)> / 61 / 63 / NH2 / OH /
66 / CN / X / NO2



G13 = O / NH / 68



G14 = Ak<EC (1-10) C, BD (0-) D (0) T> (SO (1-) G15) /
Cb<EC (3-10) C, BD (0-) D (0) T> (SO (1-) G15) / 70

$_{70}^{G11=O}$

G15 = aryl / heteroaryl<EC (0-) O (0-) S (0-) N> /
Hy<EC (0-) O (0-) S (0-) N, AR (0)> / 72 / 74 / CN / X /
NO2 / OH / SH

$_{72}^{G10-G6}$ $_{74}^{C(O)O-G9}$

G16 = H / Ak<EC (1-10) C, BD (0-) D (0) T> (SO (1-) G12) /
Cb<EC (3-10) C, BD (0-) D (0) T> (SO (1-) G12) / 79

$_{79}^{G11=O}$

MPL: claim 11

ACCESSION NUMBER: 137:119655 MARPAT
TITLE: Combinations of drugs (e.g., a benzimidazole and pentamidine) for the treatment of neoplastic disorders
INVENTOR(S): Borisy, Alexis; Keith, Curtis; Foley, Michael A.; Stockwell, Brent R.
PATENT ASSIGNEE(S): Combinatorx, Incorporated, USA
SOURCE: PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

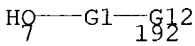
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002058697	A1	20020801	WO 2002-US1707	20020122
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002165261	A1	20021107	US 2001-768870	20010124
EP 1363625	A1	20031126	EP 2002-709117	20020122
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2001-768870	20010124
			WO 2002-US1707	20020122

AB The invention features a method for treating a patient having a cancer or other neoplasm, by administering to the patient (1) a benzimidazole or a metabolite or analog thereof; and (ii) pentamidine or a metabolite or analog thereof simultaneously or within 14 days of each other in amts. sufficient to inhibit the growth of the neoplasm.

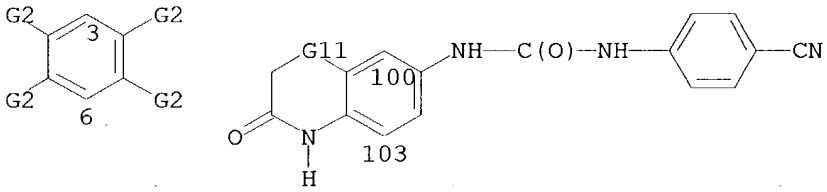
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

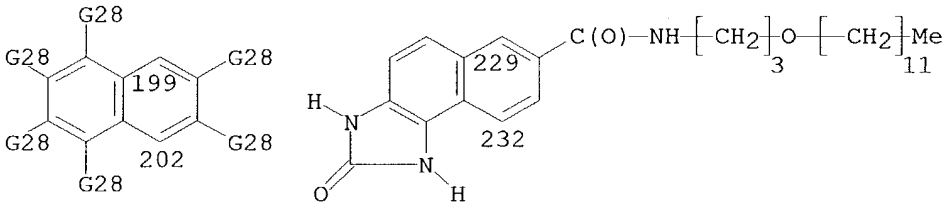
L23 ANSWER 5 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

MSTR 1

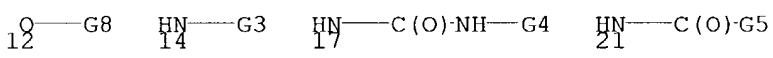


G1 = **3-7 6-192** / 199-7 202-192 / (EX 100-7 103-192 / 229-7 232-192)



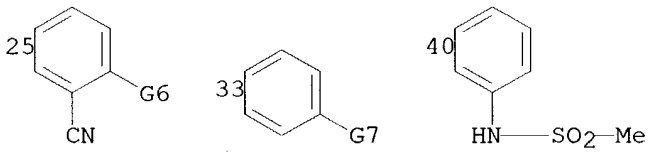


G2 = H / R / (EX X / alkyl / cycloalkyl / alkenyl / cycloalkenyl / alkynyl / aryl / Hy / **CN** / OH / NO2 / CO2H / 12 / NH2 / 14 / SO2NH2 / SO3H / alkylsulfinyl / arylsulfinyl / alkylsulfonyl / arylsulfonyl / acyl / aryloxycarbonyl / alkoxycarbonyl / CONH2 / PO3H2 / SiH3 / 17 / **21)**

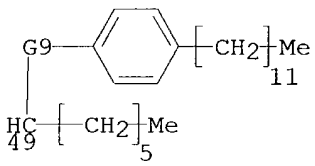


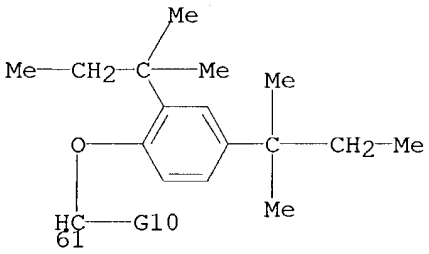
G3 = acyl / CONH2 / alkoxycarbonyl / aryloxycarbonyl / SO2NH2 / alkylsulfonyl / arylsulfonyl

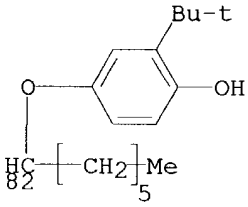
G4 = aryl (SO) / 25 / 33 / 40



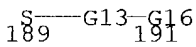
G5 = alkyl / cycloalkyl / **49** / 61 / 82 / Bu-t



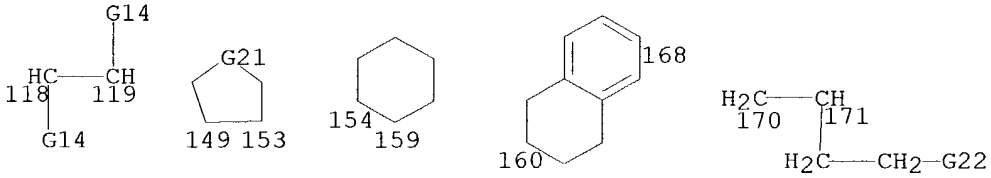


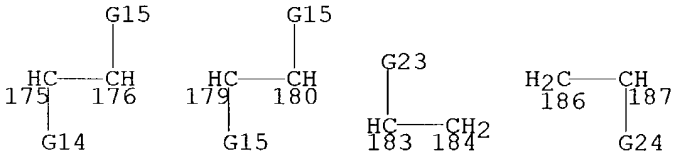


G6 = H / Cl
G7 = SO2Me / F / CN
G8 = alkyl / aryl / SiH3 / Hy / acyl / CONH2 / alkoxycarbonyl / aryloxycarbonyl
G9 = O / **S** / CH2
G10 = hexyl / Bu-n
G11 = CMe2 / NULL
G12 = H / 189



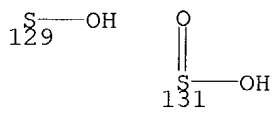
G13 = 118-189 119-191 / 175-189 176-191 / 179-189 180-191 / Cb / Hy<AN (2-) C> / (EX 149-189 153-191 / 154-189 159-191 / 160-189 168-191 / 170-189 171-191 / 183-189 184-191)



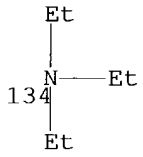


G14 = H / cycloalkyl (SO) / aryl (SO) / Hy (SO) / OH
G15 = alkyl (SO) / CO2H
G16 = R<TX "water soluble group"> / 324 / 122 / 124 / SO3H / PO3H2 / 127 / 138

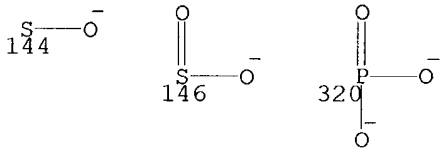
G17 = 129 / 131 / SO3H / PO3H2



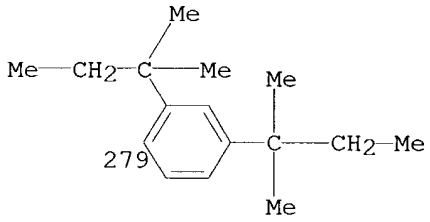
G18 = R<TX "metal"> / NH3 (SO) / (EX Na / K / Ca / Ba / 134)



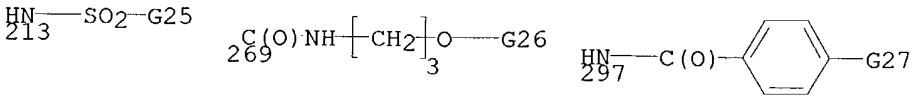
G19 = R / Bu-n
G20 = 144 / 146 / sulfonate / 320

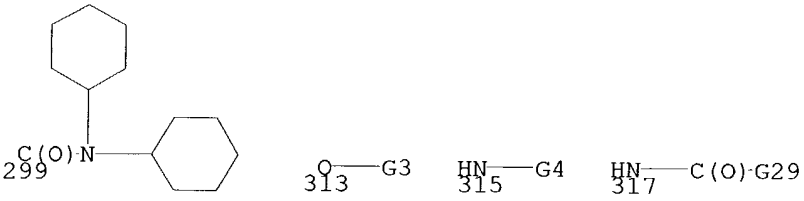


G21 = O / CH2
G22 = OMe / SO2Me / H
G23 = Me / CO2H
G24 = Ph / OH
G25 = Me / Ph / NMe2
G26 = 279 / dodecyl

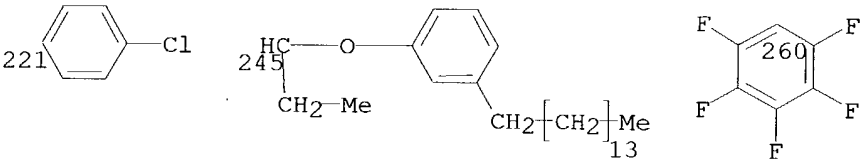


G27 = H / CN
G28 = H / R / (EX X / alkyl / cycloalkyl / alkenyl / cycloalkenyl / alkynyl / aryl / Hy / CN / OH / NO2 / CO2H / NH2 / SO2NH2 / SO3H / alkylsulfinyl / arylsulfinyl / alkylsulfonyl / arylsulfonyl / acyl / aryloxycarbonyl / alkoxycarbonyl / CONH2 / PO3H2 / SiH3 / 313 / 315 / 317 / 213 / 269 / 297 / 299)

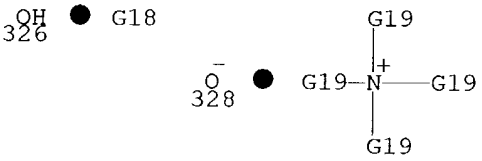




G29 = OBu-i / CF3 / Me / 221 / 245 / 260



G30 = OH / 326 / 328

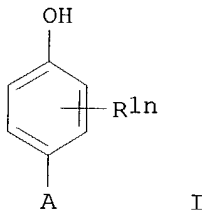


MPL: claim 1
NTE: additional ring formation and substitution also claimed

ACCESSION NUMBER: 136:232123 MARPAT
TITLE: Preparation of 4-thio-substituted phenols or 1-naphthols
INVENTOR(S): Tsukase, Masaaki; Ito, Takayuki; Kojima, Tetsuro
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002069052	A2	20020308	JP 2000-258009	20000828
PRIORITY APPLN. INFO.:			JP 2000-258009	20000828

OTHER SOURCE(S): CASREACT 136:232123
GI



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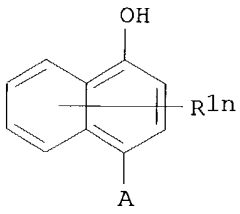
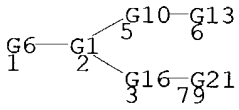


II

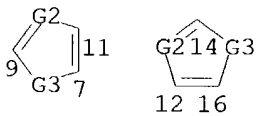
AB 4-Thio-substituted phenols I (A = SCHR3CHR4X; R1 = group substitutable with aromatic group; R3, R4 = H, alkyl, aryl, heterocyclyl, OH, CO2H, etc.; n = 0-4; X = water-soluble group) or 1-naphthols II (A , R1 = same as above; m = 0-6) are prepared by reaction of phenols I (A = H; R1, n = same as above) or naphthols II (A = H; R1, m = same as above) with R2SO2SCHR3CHR4X. (R2 = alkyl, aryl, heterocyclyl, etc.; R3, R4, X = same as above). 2-[3-(2,4-Di-tert-pentylphenyloxy)propylaminocarbonyl]-5-isobutyloxycarbonylamino-1-hydroxynaphthalene is reacted with p-MeC6H4SO2SCH2CH2CO2H in the presence of K2CO3 in MeCN at 80° for 2 h to give 87% 4-(2-carboxyethyl)thio-2-[3-(2,4-di-tert-pentylphenyloxy)propylaminocarbonyl]-5-isobutyloxycarbonylamino-1-hydroxynaphthalene.

L23 ANSWER 6 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

MSTR 1



G1 = 9-1 7-3 11-5 / 14-1 12-3 16-5



G2 = N / CH
G3 = 17 / S / O

17 N—G4

G4 = H / Me / Et / Pr-n / CH2Ph / OH / 19

19 H2C—C(O)-G5

G5 = OH / OMe / OEt / OPr-n / OCH2Ph
G6 = H / hydrocarbyl<(1-15)> (SO (1-3) G7) / 22 /
Hy<EC (3-15) A (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ,
BD (0-) D> (SO) / (SC Ph (SO (1-) G15) /
pyridyl (SO (1-) G15) / 84 / cyclohexyl / 86 / o-C6H4Me)

22 G8—G9—G8 84 G32—G33 

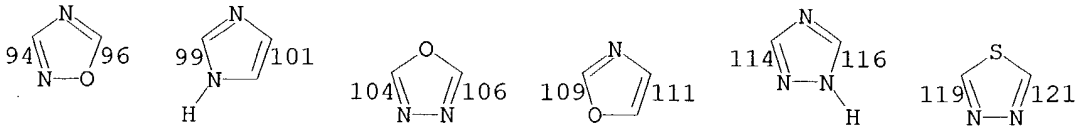
G7 = F / Cl / Br / I
G8 = Ak<(1-)> (SO (1-) G7) / Cb<(3-)> (SO (1-) G7)
G9 = O / S / NH (SO)
G10 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH) /
Cb<EC (3-) C, BD (0-) D> (SO OH) / 25-2 26-6 / 27-2 28-6 /
29-2 31-6 / 35 / G19

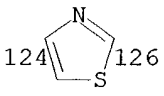
25 G11—G12 26 27 G12—G11 28 29 G11—G12—G11 31 35 G14=O

G11 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH)
G12 = Cb<EC (3-) C, BD (0-) D> (SO OH)
G13 = H / hydrocarbyl<(1-15)> (SO (1-3) G7) / 32 /
Hy<EC (3-15) A (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ,
BD (0-) D> (SO) / (SC adamantyl / cycloheptyl / cyclohexyl /
Ph / 37)

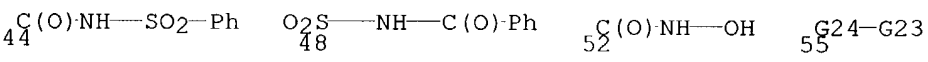
32 G8—G9—G8 37 G17—G18

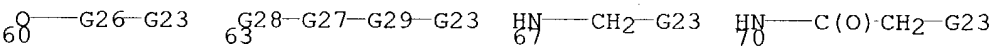
G14 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH) /
Cb<EC (3-) C, BD (0-) D> (SO OH)
G15 = OMe / NMe2 / CF3 / Me / F / Cl / Br / I
G16 = Cb<(5-6)> (SO) / Hy<EC (5-6) A (1-3) Q (0-) N (0-)
O (0-) S (0) OTHERQ> (SO) / (SC 94-2 96-79 / 99-2 101-79 /
104-2 106-79 / 109-2 111-79 / 114-2 116-79 / 119-2 121-79 /
124-2 126-79)

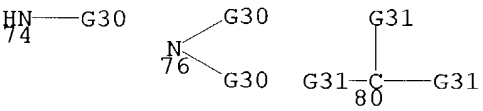




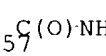
G17 = O / NH
G18 = Cb<EC (3-12) C, BD (0-) D> / adamantyl / cycloheptyl / cyclohexyl / Ph
G19 = (1-3) CH2
G21 = **Ph (SO (1-) G22)** / Hy<EC (6) A (1-3) Q (1-3) N (0) OTHERQ, AR (1-), BD (ALL) N, RC (1), RS (1) E6> (SO (1-) G22) / pyridyl / pyrimidinyl / pyrazinyl / pyridazinyl / triazinyl / (SC pyridyl (SR (1) CO2H))
G22 = **44** / 48 / CH2OH / CO2H / tetrazolyl / 52 / SO3H / 55 / 60 / 63 / 67 / **70** / hydrocarbyl<(1-6)> / NH2 / 74 / 76 / OMe / OH / F / Cl / Br / I / 80







G23 = CO2H / tetrazolyl / 57 / **SO3H**



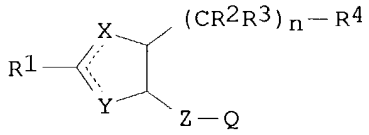
G24 = Ak<EC (1-6) C, BD (0-) D (0-) T> (SO G25)
G25 = OH / NH2 / NHCOMe
G26 = alkylene<(1-3)>
G27 = NH / NMe
G28 = SO2 / C(O)
G29 = CH2 / CHMe
G30 = Me / Et / Pr-n / CH2Ph
G31 = F / Cl / Br / I
G32 = alkylene<(1-3)>

G33 = Ph (SO (1-) G15) / pyridyl (SO (1-) G15)
MPL: claim 1
NTE: substitution is restricted
NTE: additional nitrogen, oxygen, and/or sulfur atom interruptions in hydrocarbyl moieties in G6 and G13 also claimed

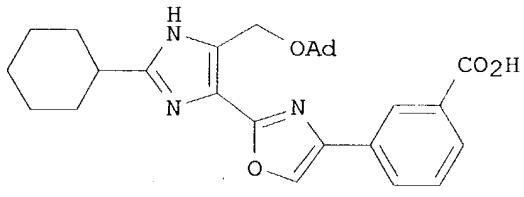
ACCESSION NUMBER: 135:371742 MARPAT
TITLE: Preparation and formulation of imidazoles as gastrin and cholecystokinin receptor ligands for treatment of gastrointestinal disorders
INVENTOR(S): Kalindjian, Sarkis Barret; Buck, Ildiko Maria; Steel, Katherine Isobel Mary; Wright, Paul Trevor; Tozer, Matthew John; Pether, Michael John; Low, Caroline Minli Rachel
PATENT ASSIGNEE(S): James Black Foundation Limited, UK
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001085723	A1	20011115	WO 2001-GB1964	20010504
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
GB 2379443	A1	20030312	GB 2002-25705	20010504
US 2003199565	A1	20031023	US 2003-275741	20030407
PRIORITY APPLN. INFO.:			GB 2000-11089	20000508
			WO 2001-GB1964	20010504

GI



I



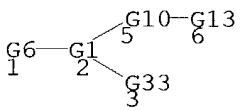
II

AB Title compds. I [wherein X and Y = independently :N, NR5, :CH, S, or O; R5 = H, Me, Et, Pr, CH2Ph, OH, or CHCO2R6; R6 = H, Me, Et, Pr, or CH2Ph; R1 = H (halo)hydrocarbyl optionally interrupted by N, O, and/or S; R2 = independently H, Me, Et, Pr, or OH; R3 = independently H, Me, Et, or Pr; or R3 groups on neighboring C's may be linked to form a carbocyclic ring or double bond; or R2 and R3 on the same C may form :O; R4 = H or (halo)hydrocarbyl optionally interrupted by N, O, and/or S; Z = a diradical derived from an (un)substituted aromatic or nonarom. 5- or 6-membered carbocycle, wherein 1, 2 or 3 C's are optionally replaced by N, O, and/or S; Q = 6-membered aromatic carbocycle (un)substituted with 1 or 2 V groups and/or 1, 2, or 3 T groups, wherein 1, 2, or 3 C's are optionally replaced by N; V = CONHSO2Ph, SO2NHCOPh, CH2OH, or R7U; U = CO2H, tetrazolyl, CONHOH, or SO3H; R7 = a bond, (un)substituted hydrocarbylene, O-alkylene, SO2NR8CHR9, or CONR8CHR9; R8 and R9 = independently H, Me, or NH(CO)cCH2; c = 0-1; and their pharmaceutically acceptable salts] were prepared as gastrin and/or cholecystokinin receptor ligands for treatment of gastrointestinal disorders. For example, 5-(adamantan-1-yloxymethyl)-2-cyclohexylimidazole-1,4-dicarboxylic acid 1-tert-Bu ester (6-step preparation given) was amidated with 3-(1-amino-2-hydroxyethyl)benzoic acid Me ester (1-step preparation given) to give the 2-hydroxy-1-(3-methoxycarbonylphenyl)ethylcarbamoylimidazole-1-carboxylic acid tert-Bu ester (35%). Cyclization afforded the 4,5-dihydrooxazole (84%), which was reduced to the oxazole (97%), deprotected (90%), and deesterified (62%) to give II. Eighteen invention compds. were tested in an immature rat stomach assay and showed gastrin (CCK2) antagonist activity with pKB values ranging from 5.76 to 8.72. In a guinea-pig pancreas CCK1 binding assay, the compds. exhibited pKi values ranging from 5.01 to 6.87. Compns. comprising I and a proton pump inhibitor are also described. These compns. reduce hyperplasia associated with administration of a proton pump inhibitor alone (no data).

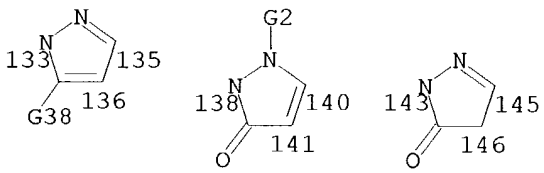
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 7 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

MSTR 1



G1 = 133-1 135-5 136-3 / 138-1 140-5 141-3 / 143-1 145-5 146-3



G2 = H / hydrocarbyl<(1-15)> (SO (1-3) G7) / 152 / Hy<EC (3-15) A (1-2) Q (0-) N (0-) O (0-) S (0) OTHERQ,

BD (0-) D> (SO) / (SC Ph (SO (1-) G15) /
pyridyl (SO (1-) G15) / 171)

^{152}G8—G9—G8 ^{171}G26—G37

G6 = hydrocarbyl<(1-15)> (SO (1-3) G7) / 22 /
Hy<EC (3-15) A (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ,
BD (0-) D> (SO) / (SC Ph (SO (1-) G15) /
pyridyl (SO (1-) G15) / 159)

^{22}G8—G9—G8 ^{159}G26—G37

G7 = F / Cl / Br / I
G8 = Ak<(1-)> (SO (1-) G7) / Cb<(3-)> (SO (1-) G7)
G9 = O / S / NH (SO)
G10 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH) /
Cb<EC (3-) C, BD (0-) D> (SO OH) / 25-2 26-6 / 27-2 28-6 /
29-2 31-6 / 35 / G36

^{25}G11—G12 ^{27}G12—G11 ^{29}G11—G12—G11 ^{35}G14=O

G11 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH)
G12 = Cb<EC (3-) C, BD (0-) D> (SO OH)
G13 = hydrocarbyl<(1-15)> (SO (1-3) G7) / 32 /
Hy<EC (3-15) A (1-2) Q (0-) N (0-) O (0-) S (0) OTHERQ,
BD (0-) D> (SO) / (SC adamantyl / cycloheptyl / cyclohexyl /
Ph / 37)

^{32}G8—G9—G8 ^{37}G17—G18

G14 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH) /
Cb<EC (3-) C, BD (0-) D> (SO OH)
G15 = OMe / NMe2 / CF3 / Me / F / Cl / Br / I
G16 = 39-2 40-79 / **C(O)** / 80-2 81-79 / 82-2 83-79 /
84-2 86-79 / 89-2 93-79

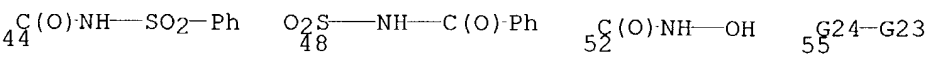
^{39}C(O)NH ^{40} ^{80}G31—C(O) ^{81} ^{82}C(O)G31 ^{83} ^{84}G31—C(O)G31 ^{86} ^{89}C(O)NH—CH$_2$—C(O)NH ^{93}

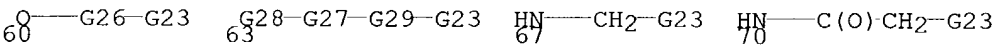
G17 = O / NH
G18 = Cb<EC (3-12) C, BD (0-) D> / adamantyl /
cycloheptyl / cyclohexyl / Ph
G19 = **Ph (SO (1-) G22)** / 42 / 94

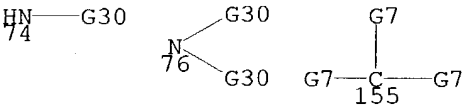
^{42}G20—G21 ^{94}G32—CO$_2$H

G20 = (1-2) CH2

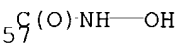
G21 = Ph (SO)
G22 = **44** / 48 / CH2OH / CO2H / tetrazolyl / 52 / SO3H / 55 / 60 / 63 / 67 / **70** / hydrocarbyl<(1-6)> / NH2 / 74 / 76 / OMe / OH / F / Cl / Br / I / 155



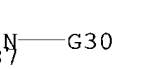




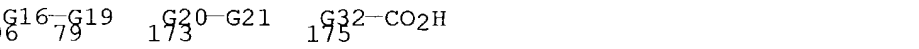
G23 = CO2H / tetrazolyl / 57 / **SO3H**



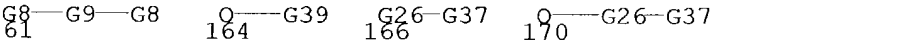
G24 = Ak<EC (1-6) C, BD (0-) D (0-) T> (SO G25)
G25 = OH / NH2 / NHCOMe
G26 = alkylene<(1-3)>
G27 = NH / NMe
G28 = SO2 / C(O)
G29 = CH2 / CHMe
G30 = Me / Et / Pr-n / CH2Ph
G31 = NH / 87



G32 = (1-3) CH2
G33 = 96 / Ph (SO) / 173 / 175



G36 = (1-4) CH2
G37 = pyridyl (SO) / Ph (SO)
G38 = H / OH / hydrocarbyl<(1-15)> (SO (1-3) G7) / 161 / Hy<EC (3-15) A (1-2) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D> (SO) / (SC 164 / Ph (SO (1-) G15) / pyridyl (SO (1-) G15) / 166 / 170 / alkoxy<(1-8)>)

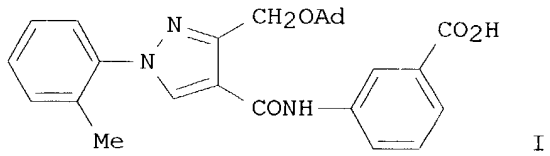


G39 = Cb<EC (3-12) C, AR (0), BD (0-) D>
MPL: claim 1
NTE: or pharmaceutically acceptable salts
NTE: substitution is restricted
NTE: additional nitrogen, oxygen, and/or sulfur atom interruptions in hydrocarbyl moieties also claimed

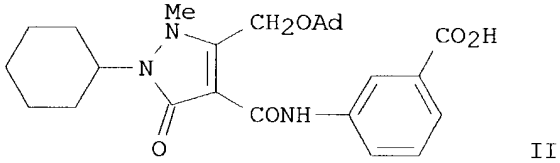
ACCESSION NUMBER: 135:371741 MARPAT
TITLE: Pyrazole derivatives and their use as gastrin and cholecystokinin receptor ligands
INVENTOR(S): McDonald, Iain Mair; Low, Caroline Minli Rachel; Steel, Katherine Isobel Mary; Spencer, John
PATENT ASSIGNEE(S): James Black Foundation Limited, UK
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001090078	A1	20011129	WO 2001-GB1976	20010504
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
GB 2378443	A1	20030212	GB 2002-25710	20010504
US 2003207874	A1	20031106	US 2003-275614	20030423
PRIORITY APPLN. INFO.:			GB 2000-11095	20000508
			WO 2001-GB1976	20010504

GI



I



II

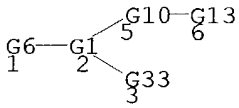
AB Pyrazolecarboxanilides such as I and II (Ad = 1-adamantyl) were prepared and tested for gastrin (CCK2) antagonist activity and hyperplasia reduction associated with administration of proton pump inhibitors. Thus, I was prepared

in 3 steps starting from AdOCH2COCH2CO2CH2Ph. In a test for gastrin antagonist activity in an immature rat stomach assay, addition of I led to a pKB value of 5.66 ± 0.24.

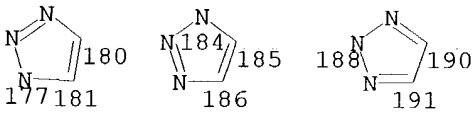
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 8 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

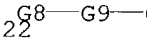
MSTR 1



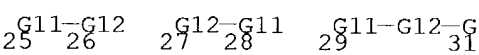
G1 = 177-1 180-5 181-3 / 184-1 185-5 186-3 / 188-1 190-5 191-3



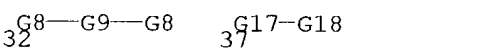
G6 = H / hydrocarbyl<(1-15)> (SO (1-3) G7) / 22 / Hy<EC (3-15) A (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D> (SO) / (SC Ph (SO (1-) G15))



G7 = F / Cl / Br / I
G8 = Ak<(1-)> (SO (1-) G7) / Cb<(3-)> (SO (1-) G7)
G9 = O / S / NH (SO)
G10 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH) / Cb<EC (3-) C, BD (0-) D> (SO OH) / 25-2 26-6 / 27-2 28-6 / 29-2 31-6 / 35 / G36

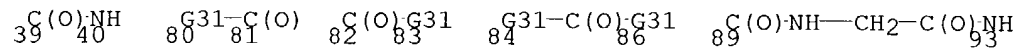


G11 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH)
G12 = Cb<EC (3-) C, BD (0-) D> (SO OH)
G13 = hydrocarbyl<(1-15)> (SO (1-3) G7) / 32 / Hy<EC (3-15) A (1-2) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D> (SO) / (SC adamantyl / cycloheptyl / cyclohexyl / Ph / 37)

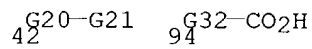


G14 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH) / Cb<EC (3-) C, BD (0-) D> (SO OH)

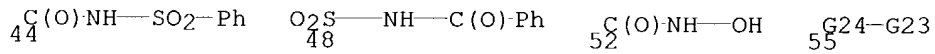
G15 = OMe / NMe2 / CF3 / Me / F / Cl / Br / I
G16 = 39-2 40-79 / **C(O)** / 80-2 81-79 / 82-2 83-79 / 84-2 86-79 / 89-2 93-79

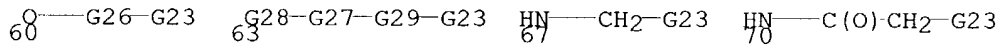


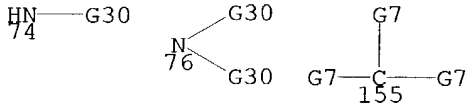
G17 = O / NH
G18 = Cb<EC (3-12) C, BD (0-) D> / adamantyl / cycloheptyl / cyclohexyl / Ph
G19 = **Ph (SO (1-) G22)** / 42 / 94



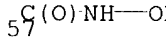
G20 = (1-2) CH2
G21 = Ph (SO)
G22 = **44** / 48 / CH2OH / CO2H / tetrazolyl / 52 / SO3H / 55 / 60 / 63 / 67 / **70** / hydrocarbyl<(1-6)> / NH2 / 74 / 76 / OMe / OH / F / Cl / Br / I / 155



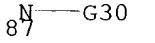




G23 = CO2H / tetrazolyl / 57 / **SO3H**



G24 = Ak<EC (1-6) C, BD (0-) D (0-) T> (SO G25)
G25 = OH / NH2 / NHCOMe
G26 = alkylene<(1-3)>
G27 = NH / NMe
G28 = SO2 / C(O)
G29 = CH2 / CHMe
G30 = Me / Et / Pr-n / CH2Ph
G31 = NH / 87

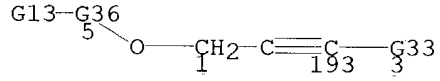


G32 = (1-3) CH2
G33 = 96 / Ph (SO) / 173 / 175

96 G16—G19 79 173 G20—G21 175 G32—CO_2H

G36 = (1-4) CH2
MPL: claim 1
NTE: or pharmaceutically acceptable salts
NTE: substitution is restricted
NTE: additional nitrogen, oxygen, and/or sulfur atom interruptions in hydrocarbyl moieties also claimed

MSTR 4



G7 = F / Cl / Br / I
G8 = Ak<(1-)> (SO (1-) G7) / Cb<(3-)> (SO (1-) G7)
G9 = O / S / NH (SO)
G13 = hydrocarbyl<(1-15)> (SO (1-3) G7) / 32 / Hy<EC (3-15) A (1-2) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D> (SO) / (SC adamantyl / cycloheptyl / cyclohexyl / Ph / 37)

32 G8—G9—G8 37 G17—G18

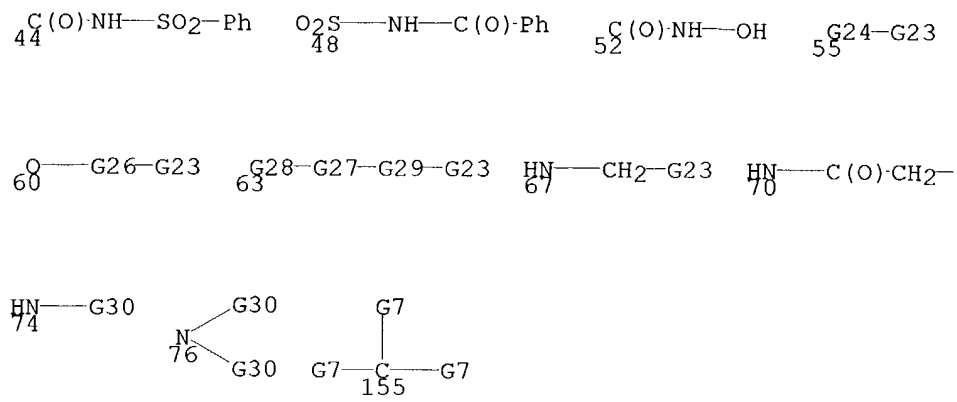
G16 = 39-193 40-79 / **C(O)** / 80-193 81-79 / 82-193 83-79 / 84-193 86-79 / 89-193 93-79

39 C(O)NH 40 80 G31—C(O) 81 82 C(O)G31 83 84 G31—C(O)G31 86 89 C(O)NH—CH_2—C(O)NH 93

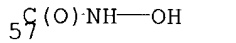
G17 = O / NH
G18 = Cb<EC (3-12) C, BD (0-) D> / adamantyl / cycloheptyl / cyclohexyl / Ph
G19 = **Ph (SO (1-) G22)** / 42 / 94

42 G20—G21 94 G32—CO_2H

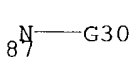
G20 = (1-2) CH2
G21 = Ph (SO)
G22 = **44** / 48 / CH2OH / CO2H / tetrazolyl / 52 / SO3H / 55 / 60 / 63 / 67 / **70** / hydrocarbyl<(1-6)> / NH2 / 74 / 76 / OMe / OH / F / Cl / Br / I / 155



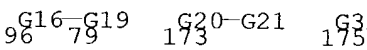
G23 = CO2H / tetrazolyl / 57 / **SO3H**



G24 = Ak<EC (1-6) C, BD (0-) D (0-) T> (SO G25)
G25 = OH / NH2 / NHCOMe
G26 = alkylene<(1-3)>
G27 = NH / NMe
G28 = SO2 / C(O)
G29 = CH2 / CHMe
G30 = Me / Et / Pr-n / CH2Ph
G31 = NH / 87



G32 = (1-3) CH2
G33 = 96 / Ph (SO) / 173 / 175



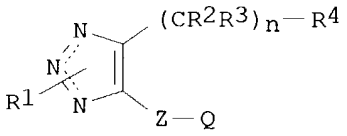
G36 = (1-4) CH2
MPL: claim 21
NTE: or protected derivatives
NTE: and precursors

ACCESSION NUMBER: 135:357933 MARPAT
TITLE: Preparation and formulation of triazoles as gastrin and cholecystokinin receptor ligands for treatment of gastrointestinal disorders
INVENTOR(S): Linney, Ian Duncan; McDonald, Iain Mair
PATENT ASSIGNEE(S): James Black Foundation Limited, UK
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English

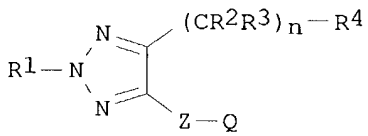
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001085704	A1	20011115	WO 2001-GB1987	20010504
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
GB 2378703	A1	20030219	GB 2002-25708	20010504
US 2003195237	A1	20031016	US 2002-275615	20021107
PRIORITY APPLN. INFO.:			GB 2000-11094	20000508
			WO 2001-GB1987	20010504

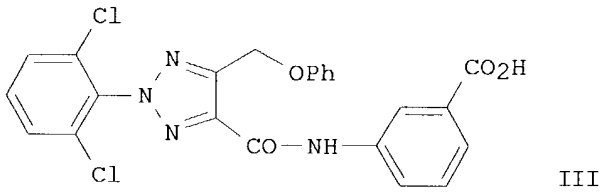
GI



I



II



III

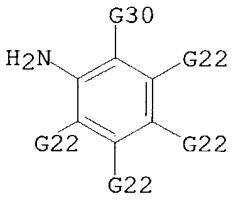
AB Title compds. I and II [wherein n = 1-4; R1 = H or (halo)hydrocarbyl optionally interrupted by N, O, and/or S; R2 = independently H, Me, Et, Pr, or OH; R3 = independently H, Me, Et, or Pr; or 2 R3 groups on adjacent C's may form a carbocyclic ring or double bond; or R2 and R3 on the same C may form :O; R4 = (halo)hydrocarbyl optionally interrupted by N, O, and/or S; Z = (NR5)aCO(NR6)b, CONR5CH2CONR6, CO2, CH2CH2, CH:CH, CH2NR6, or a bond; a = 0 or 1; b = 0 or 1; R5 and R6 = independently H, Me, Et, Pr, or CH2Ph; Q = R7V or (un)substituted phenyl(alkyl); or R7 and R6 together with the N to which R6 is attached may form a piperidine or pyrrolidine ring substituted by V; R7 = CH2, CH2CH2, or (un)substituted phenylalkylene; V = CONHSO2Ph, SO2NHCOPh, CH2OH, or R8U; U = CO2H, tetrazolyl, CONHOH, or SO3H; R8 = a bond or (un)substituted hydrocarbylene; and their pharmaceutically acceptable salts] were prepared as gastrin and/or cholecystokinin receptors ligands for treatment of gastrointestinal disorders. For example, 2-hydroxyimino-3-oxo-4-phenoxybutyric acid Et ester was cyclized with 2,6-dichlorophenylhydrazine•HCl to give the 2H-[1,2,3]-triazole-4-carboxylic acid Et ester (37%). Saponification (87%), followed by amidation with

3-NH2C6H4CO2Me (62%) and deesterification with LiOH (95%), gave III, which was converted to the N-methyl-D-glucamine salt. Thirty-two invention compds. were tested in an immature rat stomach assay and a CCK1 binding assay and showed gastrin (CCK2) antagonist activity with pKB values ranging from of 5.43 ± 0.30 to 8.37 ± 0.22 and binding activity with pKi values ranging from 5.2 to 6.1. Compns. comprising I or II and a proton pump inhibitor are also described. These compns. reduce hyperplasia associated with administration of a proton pump inhibitor alone (no data).

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 9 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

MSTR 2



G22 = (3-) H / **44** / 48 / CH2OH / CO2H / tetrazolyl / 52 / SO3H / 55 / 60 / 63 / 67 / **70**

44 C(O)-NH—SO2—Ph 48 O2S—NH—C(O)-Ph 52 C(O)-NH—OH 55 G24—G23

60 O—G26—G23 63 G28—G27—G29—G23 67 HN—CH2—G23 70 HN—C(O)-CH2—G23

G23 = CO2H / tetrazolyl / 57 / **SO3H**

57 C(O)-NH—OH

G24 = Ak<EC (1-6) C, BD (0-) D (0-) T> (SO G25)
G25 = OH / NH2 / NHCOMe
G26 = alkylene<(1-3)>
G27 = NH / NMe
G28 = SO2 / C(O)
G29 = CH2 / CHMe
G30 = NH2 / **Me** / SH / OH
MPL: claim 17
NTE: or protected derivatives

ACCESSION NUMBER: 135:357930 MARPAT
TITLE: Preparation and formulation of 2-[5-(adamantyloxymethyl)-2-cyclohexyl-1H-imidazol-4-yl]benzoxazoles and benzimidazoles as gastrin and

cholecystokinin receptor ligands for treatment of gastrointestinal disorders

INVENTOR(S): Kalindjian, Sarkis Barret; Buck, Ildiko Maria; Low, Caroline Minli Rachel; Tozer, Matthew John

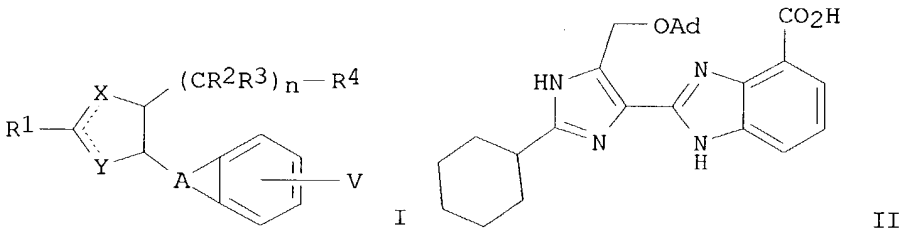
PATENT ASSIGNEE(S): James Black Foundation Limited, UK

SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001085724	A1	20011115	WO 2001-GB1982	20010504
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
GB 2377442	A1	20030115	GB 2002-25704	20010504
US 2003191116	A1	20031009	US 2003-275613	20030410
PRIORITY APPLN. INFO.:			GB 2000-11092	20000508
			WO 2001-GB1982	20010504

GI



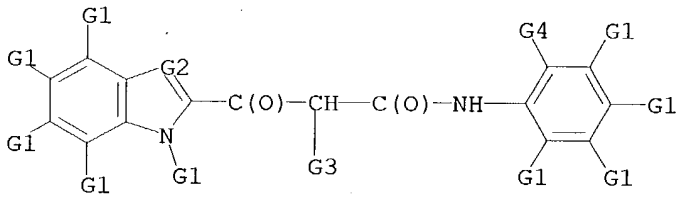
AB Title compds. I [wherein X and Y = independently :N, NR5, :CH, O, or S; R5 = H, Me, Et, Pr, CH2Ph, OH, or CH2CO2R6; R6 = H, Me, Et, Pr, or CH2Ph; A = (un)substituted 5- or 6-membered carbocyclic or heterocyclic ring; n = 1-4; R1 = H or (halo)hydrocarbyl optionally interrupted by N, O, or S; R2 = independently H, Me, Et, Pr, or OH; R3 = independently H, Me, Et, or Pr; or 2 adjacent R3 groups may form a carbocyclic ring or double bond; or R2 and R3 on the same C may form :O; R4 = (halo)hydrocarbyl optionally interrupted by N, O, and/or S; V = CONHSO2Ph, SO2NHCOPh, CH2OH, R7U; U = CO2H, tetrazolyl, CONHOH, or SO3H; R7 = a bond, (un)substituted hydrocarbylene, O-alkylene, SO2NR8CHR9, CONR8CHR9, or NH(CO)cCH2; R8 and R9 = independently H or Me; c = 0 or 1; and their pharmaceutically acceptable salts] were prepared as gastrin and/or cholecystokinin receptor ligands. For example, 2-amino-3-nitrobenzoic acid Me ester was reduced using Pd/C (75%). The diamine was treated with 5-(adamantan-1-yloxymethyl)-1-benzyl-2-cyclohexyl-1H-imidazole-4-carbaldehyde (6-step preparation given) to give the substituted 2-(1H-imidazol-4-yl)-1H-

benzimidazole-4-carboxylic acid Me ester (31%). Reductive deprotection with Pd/C (91%), followed by deesterification using LiOH (77%), afforded II. In an immature rat stomach assay, II showed gastrin (CCK2) antagonist activity with pKB of 6.43 ± 0.35. Compns. comprising I and a proton pump inhibitor for treatment of gastrointestinal disorders are also described. These compns. reduce hyperplasia associated with administration of a proton pump inhibitor alone (no data).

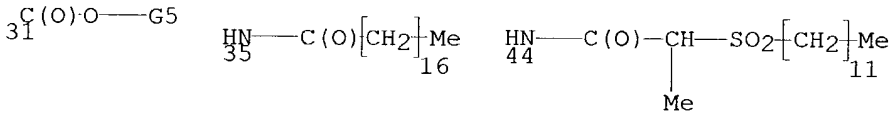
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

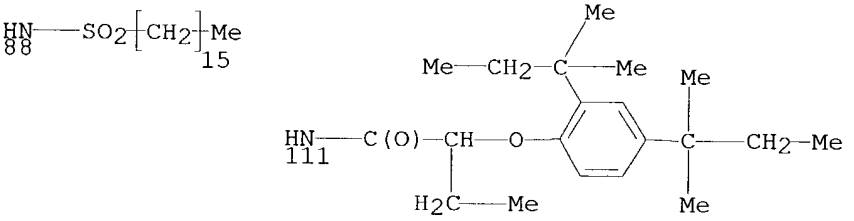
L23 ANSWER 10 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

MSTR 1



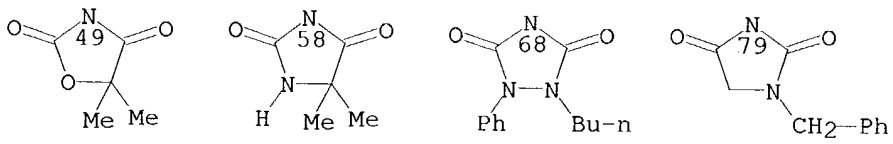
G1 = H / R / **(EX Me** / Ph / 31 / 35 / **44** / 88 / 111)

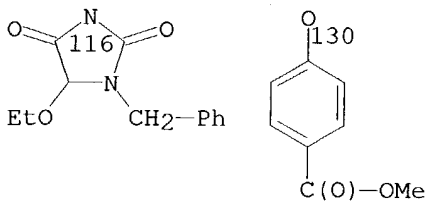




G2 = N / 86

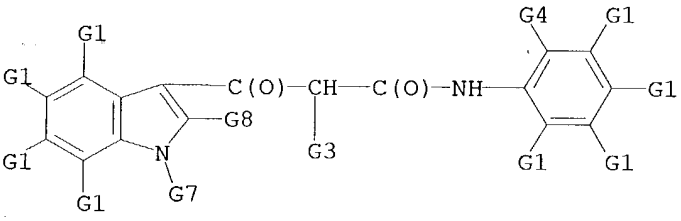
G3 = R<TX "group released by reacting with a color developer"> / (EX 49 / 58 / 68 / 79 / 116 / 130)



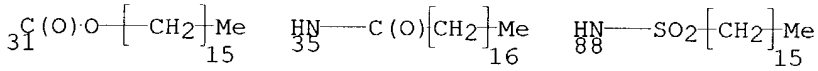


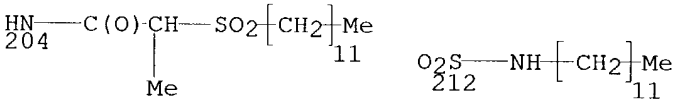
G4 = X / alkoxy / (EX F / **Cl** / Br / OMe)
G5 = hexadecyl / dodecyl
G6 = H / R / (EX Me / Cl)
MPL: claim 1

MSTR 5

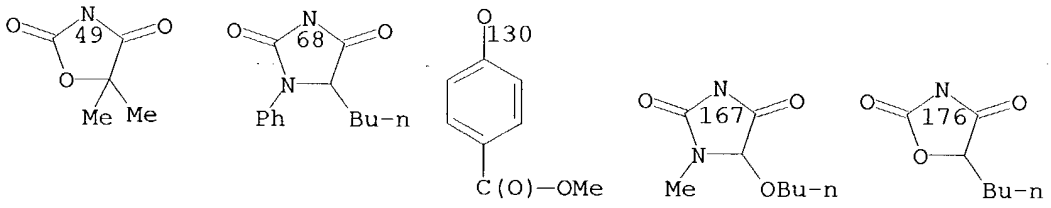


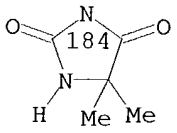
G1 = H / R / **(EX 204** / 35 / **31** / 212 / 88)

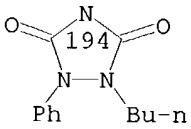




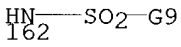
G3 = R<TX "group released by reacting with a color developer"> / (EX 49 / 167 / 68 / 130 / 176 / 184 / 194)







G4 = X / alkoxy / (EX F / **Cl** / Br / OMe)
G7 = H / R / (EX Ph / Bu-t / Bu-n / Pr-i / Me)
G8 = X / alkoxy / aryloxy / acylamino / 162 / (EX F / Cl / Br / OEt / NHCOMe / CO2Me)



G9 = R / (EX Me)
MPL: claim 5

ACCESSION NUMBER: 135:233824 MARPAT
TITLE: Silver halide color photographic material and yellow coupler
INVENTOR(S): Ishii, Fumio; Hirabayashi, Shigehito
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 43 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001249434	A2	20010914	JP 2000-60306	20000306
PRIORITY APPLN. INFO.:			JP 2000-60306	20000306

GI

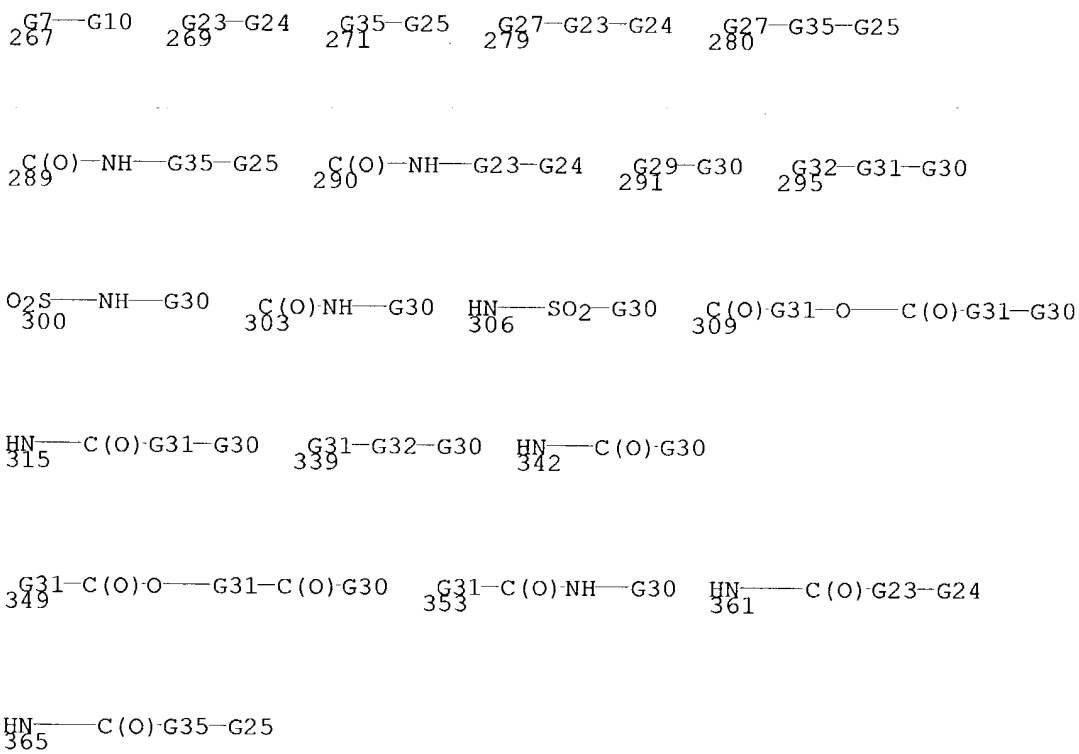
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The material has each ≥1 blue-, green-, and red-sensitive Ag halide emulsion layer on a support, in which ≥1 blue-sensitive emulsion layer contains the yellow coupler I, II, III, IV or V (R1-3 = substituent; n, m = 0-4; X1 = N, CR5; R5 = H, substituent; Y = halo, alkoxy; Z = group released by reacting with a color developer oxidation product; X2 = O, S; X3, X4 = N, CR5; R5 = H, substituent; R4 = halo, alkoxy, aryloxy, acylamino, sulfonamide). The yellow coupler gives great mol. absorption coefficient and high color development, the material showing reduced fog, high color development, and improved storage stability.

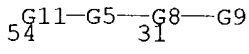
L23 ANSWER 11 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

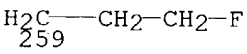
MSTR 1

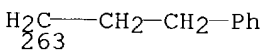
G1 = **Ph (SO (1-) G2)** / naphthyl (SO)
G2 = F / Cl / Br / I / NO2 / **CN** / OH / CF3 / OCF3 / NH2 / CO2H / CONH2 / SH / SO2NH2 / alkyl<(1-6)> / alkenyl<(2-6)> / alkynyl<(2-6)> / alkoxy<(1-6)> / CHO / alkylcarbonyl<(1-6)> / OCHO / alkylcarbonyloxy<(1-6)> / alkylamino<(1-6)> / dialkylamino<(1-6)> / NHCHO / alkylcarbonylamino<(1-6)> / alkylaminocarbonyl<(1-6)> / dialkylaminocarbonyl<(1-6)> / 267 / alkoxycarbonyl<(1-6)> / alkylaminosulfonyl<(1-6)> / dialkylaminosulfonyl<(1-6)> / 269 / 271 / 279 / 280 / 290 / 289 / **361** / 365 / Ph (SO) / 291 / 295 / 300 / 303 / 306 / 309 / 315 / 339 / 342 / 349 / 353 / (SC Me / OMe / CO2Me / Bu-t)

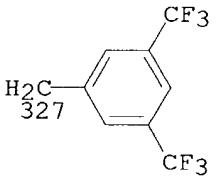


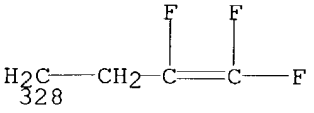
G3 = Ak<EC (1-8) C, BD (0-) D (0-) T> (SO (1-) G4) / 54 / H / (SC Me / Pr-n / CH2CH2CHMe2 / CH2Ph / 259 / 263 / pentyl / CH2CH2Ph / 327 / 328 / Bu-n / Pr-i / Bu-i / Et / 335)

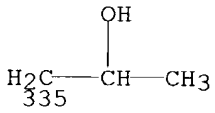






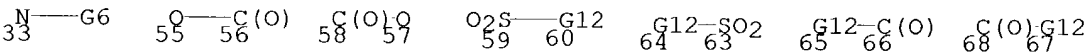


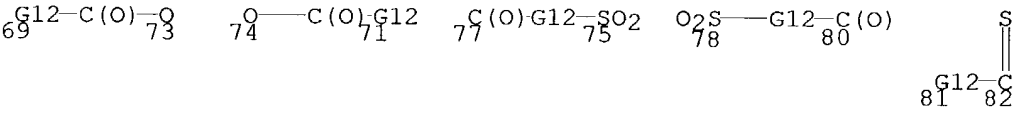


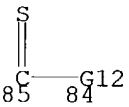


G4 = F / Cl / Br / I / NO2 / CN / OH / CF3 / OCF3 / NH2 / CO2H / CONH2 / SH / SO2NH2 / alkoxy<(1-6)> / CHO / alkylcarbonyl<(1-6)> / alkoxycarbonyl<(1-6)> / OCHO / alkylcarbonyloxy<(1-6)> / alkylamino<(1-6)> / dialkylamino<(1-6)> / NHCHO / alkylcarbonylamino<(1-6)> / alkylaminocarbonyl<(1-6)> / dialkylaminocarbonyl<(1-6)> / alkoxy<(1-6)> (SR alkoxy<(1-6)>) / alkylthio<(1-6)> / alkylsulfinyl<(1-6)> / alkylsulfonyl<(1-6)> / alkylaminosulfonyl<(1-6)> / dialkylaminosulfonyl<(1-6)> / aryl (SO) / Hy<EC (5-14) A (-5) Q (0-) N (0-) O (0-) S (0) OTHERQ, AR (0), RC (1-3)> (SO) / heteroaryl<EC (5-14) A (-5) Q (0-) N (0-) O (0-) S (0) OTHERQ, RC (1-3)> (SO) / cycloalkyl<(3-12)> (SO) / (EX Ph / naphthyl / biphenylyl)

G5 = C(O) / O / 55-54 56-31 / 58-54 57-31 / S / S(O) / SO2 / 59-54 60-31 / 64-54 63-31 / NH / 33 / 65-54 66-31 / 68-54 67-31 / 69-54 73-31 / 74-54 71-31 / 77-54 75-31 / 78-54 80-31 / 81-54 82-31 / 85-54 84-31

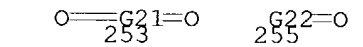






G6 = alkyl<(1-4)>
G7 = S / S(O) / SO2
G8 = (0-6) CH2
G9 = aryl (SO) / heteroaryl<EC (5-14) A (-5) Q (0-) N (0-) O (0-) S (0) OTHERQ, RC (1-3)> (SO) / 250 / 253 /

Hy<EC (5-14) A (-5) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (ALL) SE, RC (1-2)> (SO) / 255 / cycloalkyl<(3-10)> (SO) / (EX Ph / naphthyl / biphenylyl)



G10 = alkyl<(1-6)>
G11 = Ak<EC (1-8) C, BD (0-) D (0-) T> (SO)
G12 = NH / 61

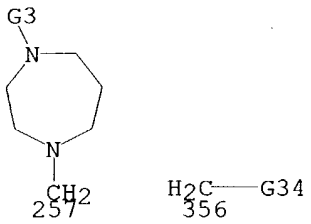
G13 = alkyl<(1-4)>
G21 = Hy<EC (5-14) A (-5) Q (0-) N (0-) O (0-) S (0) OTHERQ, AR (1-), RC (1-3)> (SO)
G22 = Hy<EC (5-14) A (-5) Q (0-) N (0-) O (0-) S (0) OTHERQ, AR (0), BD (ALL) SE, RC (1-2)> (SO)
G23 = **(1-6) CH2**
G24 = F / Cl / Br / I / NO2 / alkoxy<(1-6)> / OCF3 / **SH** / SO2NH2 / SO2Me / alkylamino<(1-6)> / dialkylamino<(1-6)>
G25 = CN / CF3 / 273

G26 = OH / NH2 / alkoxy<(1-6)> / alkylamino<(1-6)> / dialkylamino<(1-6)>
G27 = O / NH / 281

G28 = alkyl<(1-6)>
G29 = alkylene<(1-6)> / O / NH / 293

G30 = Ph (SO)
G31 = alkylene<(1-6)> / (SC CH2)
G32 = O / NH / 298 / SO2

G33 = **257** / 356 / CHO



G34 = R<TX "suitable displaceable group"> / (EX Cl / Br / OSO2Me / OSO2C6H4Me-p)
G35 = alkylene<EC (1-6) C, DC (0) M3>
DER: or pharmaceutically acceptable salts or in vivo hydrolyzable esters, amides, or carbamates
MPL: claim 1
NTE: substitution is restricted
NTE: also incorporates claim 13

ACCESSION NUMBER: 133:89555 MARPAT
TITLE: Homopiperazine derivatives as selective emopamil inhibitors
INVENTOR(S): Simpson, Thomas Richard; Walsh, Sally Ann; Warawa, Edward John
PATENT ASSIGNEE(S): Astrazeneca UK Limited, UK
SOURCE: PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000039110	A1	20000706	WO 1999-GB4330	19991220
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1140880	A1	20011010	EP 1999-962380	19991220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002533449	T2	20021008	JP 2000-591021	19991220
PRIORITY APPLN. INFO.:			GB 1998-28435	19981224
			WO 1999-GB4330	19991220

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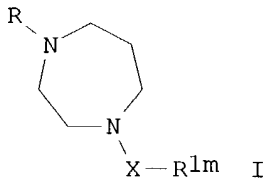


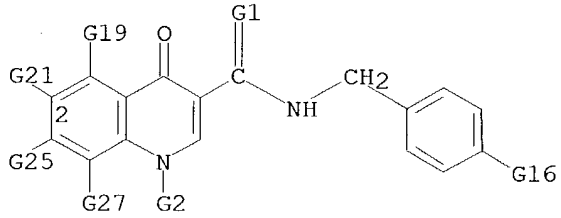
I

AB A method for the preparation of homopiperazines (I) (R = H, C1-8alkyl, C2-8alkenyl or C2-8alkynyl substituted or unsubstituted with a variety of groups; X = Ph and naphthyl; R1 at each occurrence is independently selected from, for example, halo, Cn, OH< CF3, CF3O, NH2, carboxy, carbamoyl, mercapto, sulfamoyl; m = 0-5) and compns. containing them are claimed. I are pharmacol. useful in the treatment of neurol. disorders.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

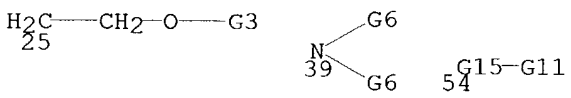
L23 ANSWER 12 OF 31 MARPAT COPYRIGHT 2004 ACS on STN
(ALL HITs ARE ITERATION INCOMPLETES)

MSTR 1 ITERATION INCOMPLETE

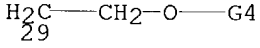


G1 = O / S

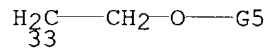
G2 = CH2CH2OH / 25 / 39 / Hy<EC (1-3) Q (1-) N (0-) O (0-) S (0) OTHERQ, AN (1-) N, BD (0-) D, RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER> (SO) / 54 / Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, AN (1-) C, BD (0-) D, RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER> (SO) / Ak<EC (1-7) C, BD (0-) D (0-) T> (SO (1-) G17) / Cb<EC (3-8) C, BD (0-) D (0-) T> (SO G18)



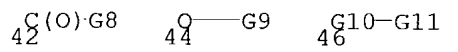
G3 = alkyl<(1-7)> (SO OH) / CH2CH2OH / 29



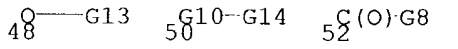
G4 = alkyl<(1-7)> (SO OH) / CH2CH2OH / 33



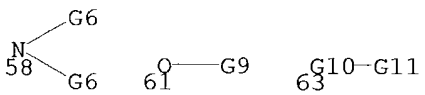
G5 = alkyl<(1-7)> (SO OH)
G6 = H / aryl<EC (6-) C, RC (1-2)> (SO) /
Ak<EC (1-7) C, BD (0-) D (0-) T> (SO (1-) G7)
G7 = NH2 / alkylamino<(1-7)> (SO OH) /
dialkylamino<(1-7)> (SO OH) / 42 / OH / 44 / CO2H /
alkoxycarbonyl<(1-10)> / Hy<EC (1-3) Q (0-) N (0-) O (0-)
S (0) OTHERQ, BD (0-) D, RC (1-2),
RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER> (SO) /
aryl<EC (6-) C, RC (1-2)> (SO) / CN / 46 / F / Cl / Br / I



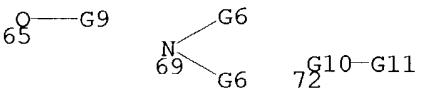
G8 = NH2 / alkylamino<(1-7)> (SO OH) /
dialkylamino<(1-7)> (SO OH)
G9 = alkyl<(1-7)> (SO OH) /
Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D,
RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER>
(SO) / aryl<EC (6-) C, RC (1-2)> (SO)
G10 = S / S(O) / SO2
G11 = aryl<EC (6-) C, RC (1-2)> (SO) /
Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D,
RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER>
(SO) / Ak<EC (1-7) C, BD (0-) D (0-) T> (SO (1-) G12)
G12 = OH / 48 / Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0)
OTHERQ, BD (0-) D, RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-)
E7 (0) OTHER> (SO) / aryl<EC (6-) C, RC (1-2)> (SO) / NH2 /
alkylamino<(1-7)> (SO OH) / dialkylamino<(1-7)> (SO OH) /
CN / SH / 50 / F / Cl / Br / I / 52



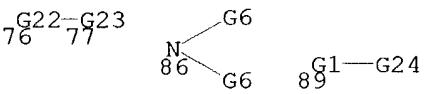
G13 = alkyl<(1-7)> (SO OH) /
aryl<EC (6-) C, RC (1-2)> (SO)
G14 = alkyl<(1-6)> / aryl<EC (6-) C, RC (1-2)> (SO)
G15 = O / S / S(O) / SO2
G16 = Cl / F / Br / CN / NO2
G17 = 58 / Hy<EC (1-3) Q (1-) N (0-) O (0-) S (0) OTHERQ,
AN (1-) N, BD (0-) D, RC (1-2),
RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER> (SO) / OH /
61 / CO2H / alkoxycarbonyl<(1-10)> /
Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D,
RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER>
(SO) / aryl<EC (6-) C, RC (1-2)> (SO) / CN / 63 /
alkoxy<(2-4)> (SO)



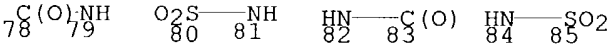
G18 = OH / 65 / CO2H / alkoxycarbonyl<(1-10)> / Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D, RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER> (SO) / aryl<EC (6-) C, RC (1-2)> (SO) / CN / 69 / Hy<EC (1-3) Q (1-) N (0-) O (0-) S (0) OTHERQ, AN (1-) N, BD (0-) D, RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER> (SO) / 72 / alkyl<(1-7)> (SO)



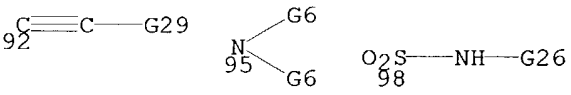
G19 = H / F / Cl / Br / I / alkyl<(1-4)> (SO (1-3) G20)
G20 = F / Cl / Br / I
G21 = H / aryl<EC (6-) C, RC (1-2)> (SO) / Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D, RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER> (SO) / 76 / 86 / 89 / Ak<EC (1-8) C, BD (0-) D (0-) T> (SO)



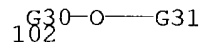
G22 = 78-2 79-77 / 80-2 81-77 / 82-2 83-77 / 84-2 85-77



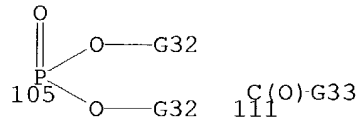
G23 = H / Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D, RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER> (SO) / aryl<EC (6-) C, RC (1-2)> (SO) / cycloalkyl<(3-8)> / alkyl<(1-7)> (SO)
G24 = alkyl<(2-7)> (SO OH)
G25 = H / F / Cl / Br / I / 92 / 95 / SO2NH2 / 98 / Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D, RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER> (SO) / alkyl<(1-7)> (SO OH)



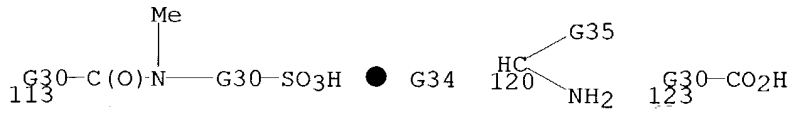
G26 = Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D, RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER> (SO) / aryl<EC (6-) C, RC (1-2)> (SO) / cycloalkyl<(3-8)> / alkyl<(1-7)> (SO)
G27 = H / F / Cl / Br / I / alkylthio<(1-7)> / alkoxy<(1-7)> (SO (1-) G28) / Ak<EC (1-7) C, BD (0-) D (0-) T> (SO)
G28 = F / Cl / Br / I / OH
G29 = Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D, RC (1-2), RS (0-) E4 (0-) E5 (0-) E6 (0-) E7 (0) OTHER> (SO) / 102 / alkyl<(1-7)> (SO)



G30 = (1-6) CH2
G31 = PO3H2 / 105 / 111



G32 = alkyl<(1-7)>
G33 = 113 / 120 / aryl<EC (6-) C, RC (1-2)> (SO) /
alkyl<(1-6)> (SO G36) / 123



G34 = Na / K / Li
G35 = R<TX "amino acid side chain">
G36 = NH2 / alkylamino<(1-7)> (SO OH) /
dialkylamino<(1-7)> (SO OH)
DER: or pharmaceutically acceptable salts
MPL: claim 1

ACCESSION NUMBER: 133:89443 MARPAT
TITLE: Quinolinecarboxamides as antiviral agents, especially against viruses of the herpes family
INVENTOR(S): Turner, Steven Ronald; Strohbach, Joseph Walter; Thaisrivongs, Suvit; Vaillancourt, Valerie A.; Schnute, Mark E.; Tucker, John Alan
PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA
SOURCE: PCT Int. Appl., 219 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000040561	A1	20000713	WO 1999-US27960	19991222
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6248739	B1	20010619	US 1999-466712	19991217

EP 1140850	A1	20011010	EP 1999-967145	19991222
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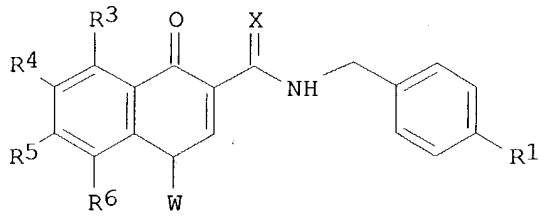
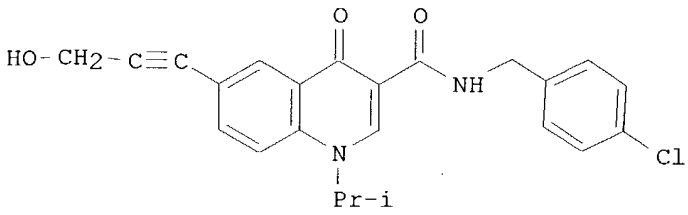
NZ 512824	A	20030926	NZ 1999-512824	19991222
ZA 2001004711	A	20020610	ZA 2001-4711	20010608
NO 2001003383	A	20010907	NO 2001-3383	20010706
PRIORITY APPLN. INFO.:			US 1999-115301P	19990108
			US 1999-140610P	19990623
			WO 1999-US27960	19991222

GI



I



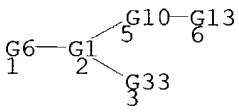
II

AB The invention provides quinolinecarboxamides I (X = O, S; W = R2, etc., where R1-R6 = a wide variety of defined groups, with 125 examples), e.g., hydroxypropynyl derivative II, and their pharmaceutically acceptable salts which are useful as antiviral agents, in particular, as agents against viruses of the herpes family. Activities of the compds. against HCMV, HSV, and VZV polymerase are presented. Pharmaceutical compns. comprising compds. I are claimed (no examples).

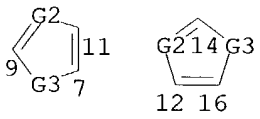
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 13 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

MSTR 1

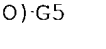


G1 = 9-1 7-3 11-5 / 14-1 12-3 16-5

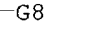


G2 = N / CH
G3 = 17 / S / O

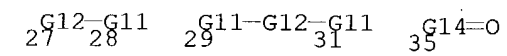
G4 = H / Me / Et / Pr-n / CH2Ph / OH / 19



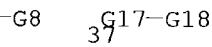
G5 = OH / OMe / OEt / OPr-n / OCH2Ph
G6 = H / hydrocarbyl<(1-15)> (SO (1-3) G7) / 22 /
Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D>
(SO) / (SC Ph (SO (1-) G15))



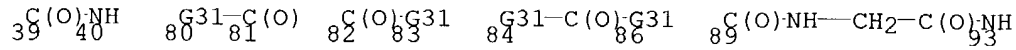
G7 = F / Cl / Br / I
G8 = Ak<(1-)> (SO (1-) G7) / Cb<(3-)> (SO (1-) G7)
G9 = O / S / NH (SO)
G10 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH) /
Cb<EC (3-) C, BD (0-) D> (SO OH) / 25-2 26-6 / 27-2 28-6 /
29-2 31-6 / 35



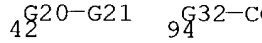
G11 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH)
G12 = Cb<EC (3-) C, BD (0-) D> (SO OH)
G13 = hydrocarbyl<(1-15)> (SO (1-2) G7) / 32 /
Hy<EC (1-2) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D>
(SO) / (SC adamantyl / cycloheptyl / cyclohexyl / Ph / 37)



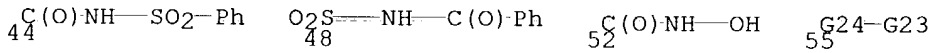
G14 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH) /
Cb<EC (3-) C, BD (0-) D> (SO OH)
G15 = OMe / NMe2 / CF3 / Me / F / Cl / Br / I
G16 = 39-2 40-79 / **C(O)** / 80-2 81-79 / 82-2 83-79 /
84-2 86-79 / 89-2 93-79

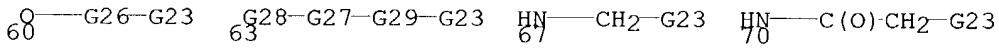


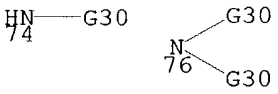
G17 = O / NH
G18 = Cb<(3-12)> / adamantyl / cycloheptyl / cyclohexyl / Ph
G19 = **Ph (SR (1-) G22)** / 42 / 94



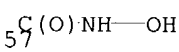
G20 = (1-2) CH2
G21 = Ph (SR (1-) G22)
G22 = **44** / 48 / CH2OH / CO2H / tetrazolyl / 52 / SO3H / 55 / 60 / 63 / 67 / **70** / hydrocarbyl<(1-6)> / NH2 / 74 / 76 / OMe / OH / F / Cl / Br / I



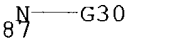




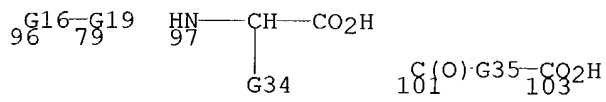
G23 = CO2H / tetrazolyl / 57 / **SO3H**



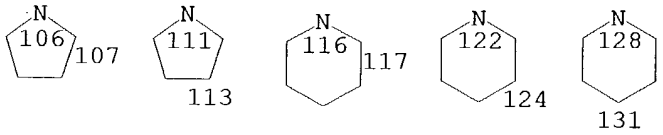
G24 = Ak<EC (1-6) C, BD (0-) D (0-) T> (SO G25)
G25 = OH / NH2 / NHCOMe
G26 = alkylene<(1-3)>
G27 = NH / NMe
G28 = SO2 / C(O)
G29 = CH2 / CHMe
G30 = Me / Et / Pr-n / CH2Ph
G31 = NH / 87



G32 = (1-3) CH2
G33 = 96 / 97 / 101 / CO2H / NCO

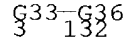


G34 = Ph (SO)
G35 = 106-101 107-103 / 111-101 113-103 /
116-101 117-103 / 122-101 124-103 / 128-101 131-103

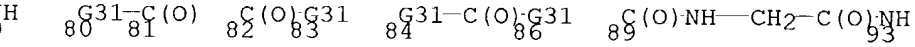


DER: or pharmaceutically acceptable salts
MPL: claim 1
NTE: substitution is restricted
NTE: also incorporates claim 23
NTE: additional nitrogen, oxygen, and/or sulfur atom interruptions in hydrocarbyl moieties in G6 and G13 also claimed

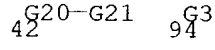
MSTR 2



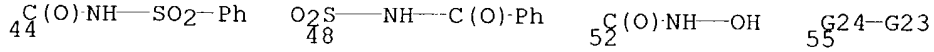
G16 = 39-132 40-79 / **C(O)** / 80-132 81-79 / 82-132 83-79 /
84-132 86-79 / 89-132 93-79

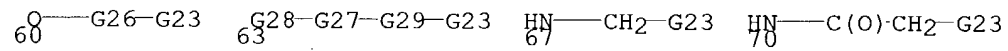


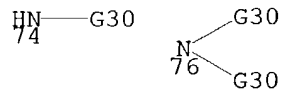
G19 = **Ph (SR (1-) G22)** / 42 / 94



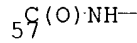
G20 = (1-2) CH2
G21 = Ph (SR (1-) G22)
G22 = **44** / 48 / CH2OH / CO2H / tetrazolyl / 52 / SO3H /
55 / 60 / 63 / 67 / **70** / hydrocarbyl<(1-6)> / NH2 / 74 / 76
/
OMe / OH / F / Cl / Br / I



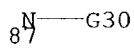




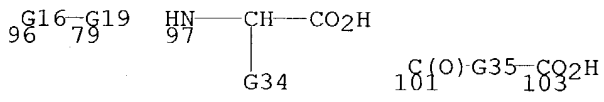
G23 = CO2H / tetrazolyl / 57 / **SO3H**



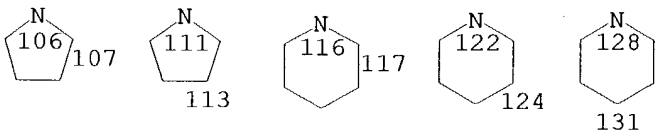
G24 = Ak<EC (1-6) C, BD (0-) D (0-) T> (SO G25)
G25 = OH / NH2 / NHCOMe
G26 = alkylene<(1-3)>
G27 = NH / NMe
G28 = SO2 / C(O)
G29 = CH2 / CHMe
G30 = Me / Et / Pr-n / CH2Ph
G31 = NH / 87



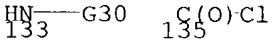
G32 = (1-3) CH2
G33 = 96 / 97 / 101



G34 = Ph (SO)
G35 = 106-101 107-103 / 111-101 113-103 /
116-101 117-103 / 122-101 124-103 / 128-101 131-103

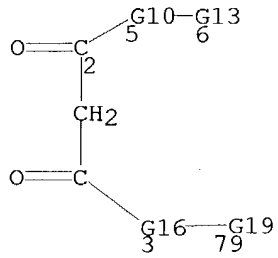


G36 = NH2 / 133 / 135



DER: or protected derivatives
MPL: claim 21
NTE: also incorporates claim 24

MSTR 3



G7 = F / Cl / Br / I
G8 = Ak<(1-)> (SO (1-) G7) / Cb<(3-)> (SO (1-) G7)
G9 = O / S / NH (SO)
G10 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH) /
Cb<EC (3-) C, BD (0-) D> (SO OH) / 25-2 26-6 / 27-2 28-6 /
29-2 31-6 / 35

25 G11—G12 26 27 G12—G11 28 29 G11—G12—G11 31 35 G14=O

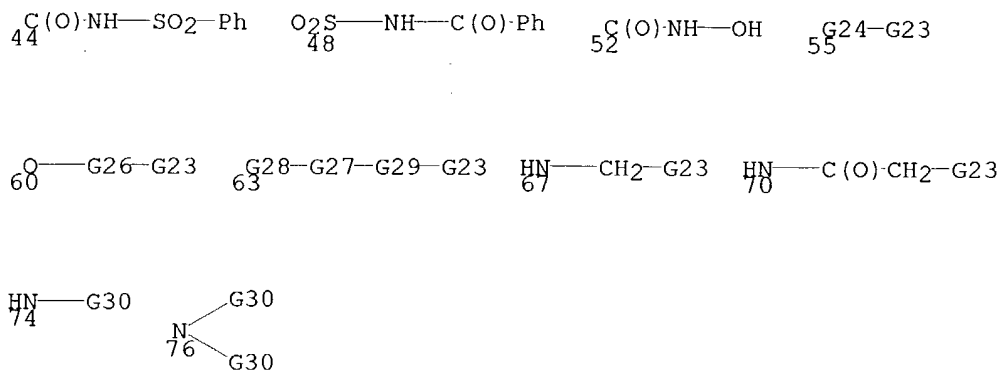
G11 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH)
G12 = Cb<EC (3-) C, BD (0-) D> (SO OH)
G13 = hydrocarbyl<(1-15)> (SO (1-2) G7) / 32 /
Hy<EC (1-2) Q (0-) N (0-) O (0-) S (0) OTHERQ, BD (0-) D>
(SO) / (SC adamantyl / cycloheptyl / cyclohexyl / Ph / 37)

32 G8—G9—G8 37 G17—G18

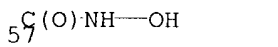
G14 = Ak<EC (1-) C, BD (0-) D (0) T> (SO OH) /
Cb<EC (3-) C, BD (0-) D> (SO OH)
G16 = NH / O
G17 = O / NH
G18 = Cb<(3-12)> / adamantyl / cycloheptyl / cyclohexyl /
Ph
G19 = **Ph (SR (1-) G22)** / 42 / 94

42 G20—G21 94 G32—CO_2H

G20 = (1-2) CH2
G21 = Ph (SR (1-) G22)
G22 = **44** / 48 / CH2OH / CO2H / tetrazolyl / 52 / SO3H /
55 / 60 / 63 / 67 / **70** / hydrocarbyl<(1-6)> / NH2 / 74 / 76
/
OMe / OH / F / Cl / Br / I



G23 = CO2H / tetrazolyl / 57 / **SO3H**



G24 = Ak<EC (1-6) C, BD (0-) D (0-) T> (SO G25)
G25 = OH / NH2 / NHCOMe
G26 = alkylene<(1-3)>
G27 = NH / NMe
G28 = SO2 / C(O)
G29 = CH2 / CHMe
G30 = Me / Et / Pr-n / CH2Ph
G32 = (1-3) CH2
MPL: claim 25

ACCESSION NUMBER: 132:347569 MARPAT
TITLE: Preparation gastrin and cholecystokinin receptor ligands
INVENTOR(S): Kalindjian, Sarkis Barret; Buck, Ildiko Maria; Linney, Ian Duncan; Wright, Paul Trevor; McDonald, Iain Mair; Steel, Katherine Isobel Mary; Hull, Robert Antony David; Roberts, Sonia Patricia; Gaffen, John David; Vinter, Jeremy Gilbert; Walker, Martin Keith; Black, James Whyte; Watt, Gillian Fairfull; Harper, Elaine Anne; Shankley, Nigel Paul; Tozer, Matthew John; Dunstone, David John; Pether, Michael John; Lilley, Elliot James; Sykes, David Andrew; Low, Caroline Minli Rachel; Griffin, Eric Peter; Wright, Laurence
PATENT ASSIGNEE(S): James Black Foundation Limited, UK
SOURCE: PCT Int. Appl., 210 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027823	A1	20000518	WO 1999-GB3733	19991109

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,

IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
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CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

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US 6479531	B1	20021112	US 2001-831385	20010802
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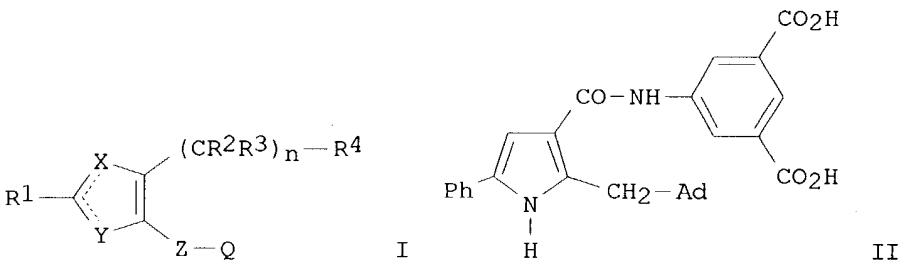
GI

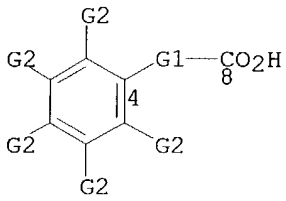


AB Title compds. (I) [wherein X and Y = independently N, N(R5), CH, S, or O; n = 1-4; Z = (NR7)aCO(NR8)b, CONR7CH2CONR8, CO2, CH2CH2, CH=CH, CH2N(R8), or a bond; a and b = independently 0 or 1; Q = R9V (un)substituted phenyl(alkyl); V = CONHSO2Ph, SO2NHCOPh, CH2OH, etc.; R1 = H or (halo)hydrocarbyl where ≤ 3 C atoms may be replaced by N, O, and/or S atoms; R2 = H, Me, Et, Pr, or OH; R3 = H, Me, Et, or Pr; or 2 adjacent R3 groups form a carbocyclic ring when n > 1; or R2 and R3 on the same C atom together = :O ; R4 = (halo)hydrocarbyl where ≤ 2 C atoms may be replaced by N, O, and/or S atoms; R5 = H, Me, Et, Pr, benzyl, OH, or carboxymethyl (esters); R7 and R8 = independently H, Me, Et, Pr, or benzyl; R9 = CH2, CH2CH2, or (un)substituted phenylmethylene; or R8 and R9, together with the adjacent N, form a substituted piperidine or pyrrolidine] and their pharmaceutically acceptable salts were prepared Examples include syntheses and biol. data for 314 compds. Thus, 2-adamantan-1-ylmethyl-5-phenyl-1H-pyrrole-3-carboxylic acid (3-step preparation given) was coupled with 5-aminoisophthalic acid dibenzyl ester (45%), followed by deprotection (98%) to give II. II had pKi of 6.72 for binding at the CCKB mouse cortical membranes and pKb of 6.33 for gastrin antagonist activity.

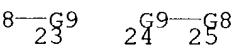
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 14 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

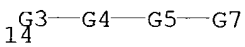
MSTR 1



G1 = R<TX "linking group"> / (EX alkylene / 22-4 23-8 / 24-4 25-8 / CH2CH2)

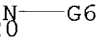


G2 = (1) 14 / H / alkyl / alkenyl / aralkyl / aryl / X / NO2 / **CN** / alkoxy / (EX Me)

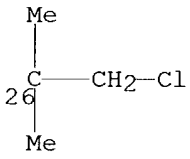


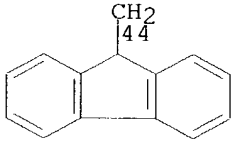
G3 = **NH** / 18

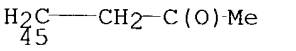
G4 = **(1-2) C(O)**
G5 = NH / 20 / O / **S**

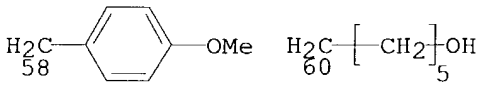


G6 = alkyl / alkenyl / aralkyl / aryl / cycloalkyl / (EX Ph (SO) / Me)
G7 = alkyl (SO) / alkenyl (SO) / aralkyl (SO) / aryl (SO) / cycloalkyl (SO) / cycloalkenyl (SO) / heteroaryl (SO) / (EX Ph (SO) / naphthyl (SO) / Bu-t / C(Me)2CH2Me / 26 / Et / 44 / CH2Ph / 45 / 49 / 58 / CH2CH2Ph / octyl / 60 / Bu-n)









G8 = O / S / SO2
G9 = alkylene / (EX CH2)
MPL: claim 3

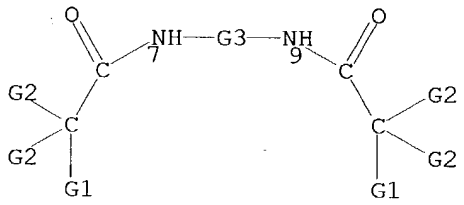
ACCESSION NUMBER: 131:358262 MARPAT
TITLE: Electron-accepting compound and thermal recording medium with heat-sensitive color-forming layer containing it
INVENTOR(S): Hizatate, Shoji; Kubota, Seiko
PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11315060	A2	19991116	JP 1999-31820	19990209
PRIORITY APPLN. INFO.:			JP 1998-38447	19980220

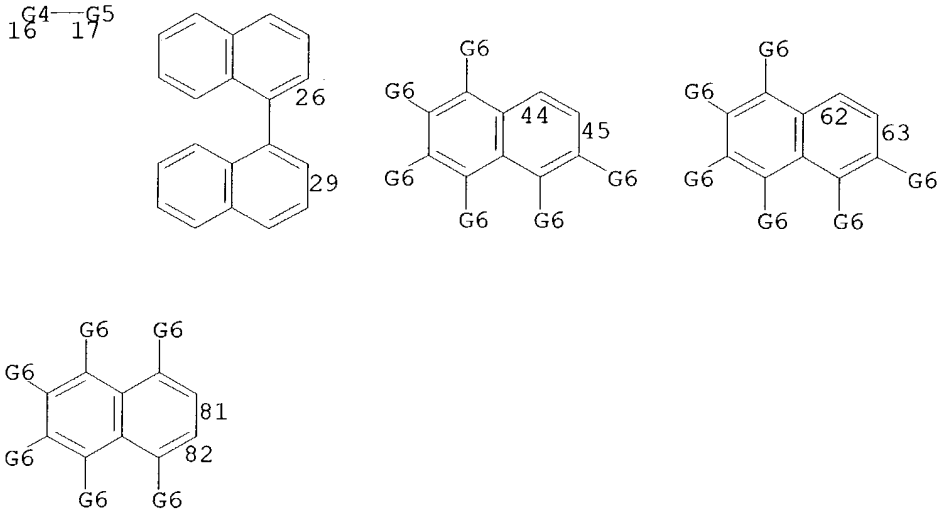
GI For diagram(s), see printed CA Issue.
AB The electron-accepting compound irreversibly loses electron accepting ability by thermal energy, and preferably has a structure having ≥1 functional group represented by R1N(CO)pYR2 (p = 1, 2; R1-2 = H, alkyl, alkenyl, aralkyl, aryl; R2 ≠ H; Y = NR3, O, S; R3 = H, aralkyl, alkenyl, aryl, alkyl) or a structure I (A = alkyl, alkenyl, aralkyl, aryl; Q = atoms required for forming 5- or 6-membered ring). The recording medium containing ≥1 of the electron-accepting compound in a heat-sensitive color-forming layer is also claimed. Images with ≥2 of different colors can be formed without color mixing by using the recording medium having ≥2 color-forming layers.

L23 ANSWER 15 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

MSTR 1



G1 = OH / NH2 / **SH**
G2 = Ph / Bu-t / CH2CMe3 / SiMe3 / cyclohexyl / Me
G3 = **phenylene (SO G7)** / 16-7 17-9 / 26-7 29-9 / 44-7 45-9 / 63-7 62-9 / 81-7 82-9 / alkylene (SO)



G4 = phenylene (SO) / Cb<EC (10) C, AR (1-), BD (ALL) N, RC (2), RS (2) E6> (SO)
G5 = phenylene (SO) / Cb<EC (10) C, AR (1-), BD (ALL) N, RC (2), RS (2) E6> (SO)
G6 = H / R
G7 = R / **(EX Me)**
DER: and metal complexes
MPL: claim 1
NTE: also incorporates claim 8 and broader disclosure

ACCESSION NUMBER: 129:156137 MARPAT
TITLE: High oxidation state metal oxo complexes of the PHAB ligand
INVENTOR(S): O'Halloran, Thomas V.; MacDonnell, Frederick M.; Fackler, Nathanael L. P.
PATENT ASSIGNEE(S): Northwestern University, USA
SOURCE: U.S., 17 pp., Cont. of U.S. Ser. No. 292,145, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5786496	A	19980728	US 1996-746617	19961115
PRIORITY APPLN. INFO.:			US 1994-294145	19940822

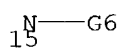
AB The present invention provides a new tetradentate bis-amido bis-alkoxo, 1,2-(bis-2,2-diphenyl-2-hydroxyethanamido)benzene (H4PHAB) and various derivs. thereof. This ligand is able to stabilize high valent metal oxo complexes by providing strong sigma donor ligands and through the use of steric bulk to prevent decomposition via formation of the μ-oxo dimers. Disclosed are novel metal oxo structural chemical and oxidation reactions carried out with the novel metal oxo complexes. Thus, PPh4[MnO(PHAB)] was prepared by first preparing the Mn(III) dimer, Li2[Mn(PHAB)]2, followed by oxidation of the dimer and metathesis with Ph4PCl.
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

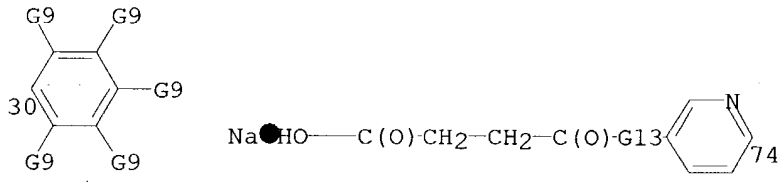
L23 ANSWER 16 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

MSTR 1

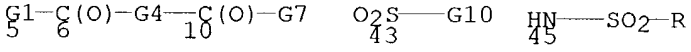
G1 = O / **NH** / 15



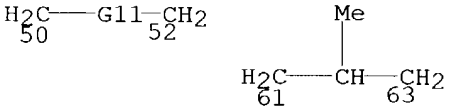
G2 = aryl (SO (1-) G3) / heteroaryl (SO) / **(EX 30** / naphthyl (SO) / 74)



G3 = (-2) 5 / R / (EX alkyl (SO (1-) F) / alkoxy / aryl / Ph / naphthyl / tolyl / OH / X / aryloxy / OPh / alkylthio / arylthio / SPh / acyl / COMe / COCH2Me / COCH2CH2Me / CO(CH2)3Me / acylamino / 43 / 45 / acyloxy / OCOMe / OCOPh / CO2H / CN / SO3H / NH2)

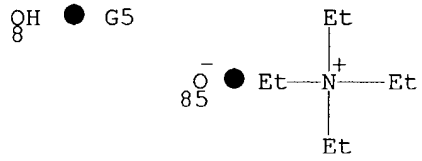


G4 = NULL / R<TX "linking group"> / (SC G8) / (EX 50-6 52-10 / 61-6 63-10)

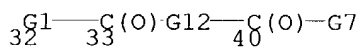


G5 = R<TX "cationic species"> / (SC alkali metal atom)
G6 = R / (EX alkyl (SO (1-) F) / aryl / Ph / naphthyl / tolyl / 48 / Me)

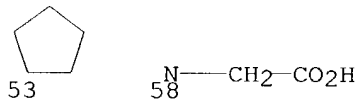
G7 = OH / 8 / (EX 85)



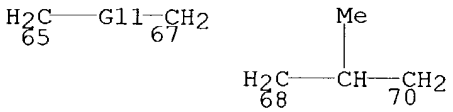
G8 = (1-11) CH2
G9 = **32** / H / alkoxy / aryl / Ph / naphthyl / tolyl / OH / X / aryloxy / alkylthio / arylthio / **acyl** / COMe / COCH2Me / COCH2CH2Me / CO(CH2)3Me / acylamino



G10 = R / (EX Me / Ph)
G11 = **S** / 53 / O / 58



G12 = NULL / R<TX "linking group"> / (SC G8) / **(EX 65-33 67-40** / 68-33 70-40)



G13 = NH / O
MPL: claim 1

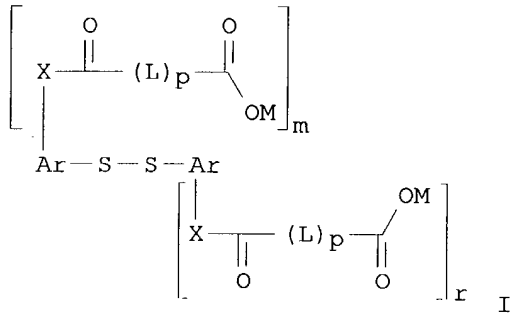
ACCESSION NUMBER: 128:302049 MARPAT
TITLE: Photographic paper with iodochloride emulsion and disulfide compound
INVENTOR(S): Hendricks, Jess Byrd; Budz, Jerzy Antoni; Hahm, Paul Timothy
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: Eur. Pat. Appl., 29 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 836115	A1	19980415	EP 1997-202981	19970929
EP 836115	B1	20001129		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

US 5830631	A	19981103	US 1996-729127	19961011
JP 10123658	A2	19980515	JP 1997-279123	19971013
PRIORITY APPLN. INFO.:			US 1996-729127	19961011

GI



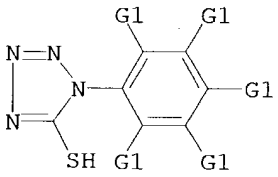
I

AB The invention relates to a photog. emulsion comprising silver iodochloride grains, said grains further comprising osmium and ruthenium, said grains chemical sensitized with gold in an amount of between 0.1 and 120 mg gold per silver mole and sulfur in an amount between 0.1 and 20 mg sulfur per silver mole and a disulfide compound represented by the formula I wherein X is independently O, NH, or NR, where R is a substituent; m and r are independently 0, 1, or 2; M is H or a cationic species; Ar is an aromatic group; and L is a linking group, where p is 0 or 1.

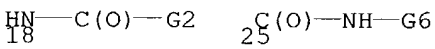
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 17 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

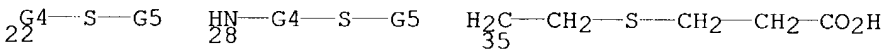
MSTR 1

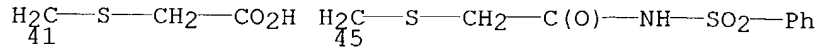


G1 = (3-4) H / **18** / **25** / (EX G3)

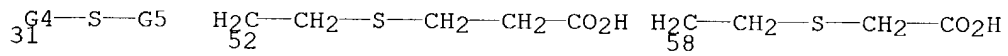


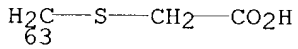
G2 = 22 / 28 / (EX 35 / **41** / 45)





G3 = X / F / Cl / alkoxy / OCF3 / CF3 / OEt
G4 = alkylene<(-4)> (SO)
G5 = alkyl<(-4)> (SO)
G6 = 31 / alkylcarbonyl<(1-3)> (SR G7) / (EX 52 / 58 / 63)



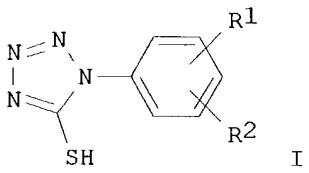


G7 = alkylthio / arylthio
MPL: claim 7
NTE: substitution is restricted
NTE: incorporates broader disclosure for G1

ACCESSION NUMBER: 128:223791 MARPAT
TITLE: Photographic silver halide emulsion with improved sensitivity
INVENTOR(S): Brennecke, Detlef; Nietgen, Maria; Bergthaller, Peter
PATENT ASSIGNEE(S): Agfa-Gevaert A.-G., Germany
SOURCE: Ger. Offen., 8 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19635099	A1	19980305	DE 1996-19635099	19960830

PRIORITY APPLN. INFO.: DE 1996-19635099 19960830
GI



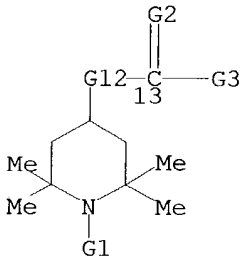
I

AB The title emulsion comprises ≥50 mol.% of AgCl and ≥50 % of projected areas having rod-shaped grains, wherein the grains has an aspect ratio of 1.5-1.52. The emulsion is manufactured in the presence of a compound represented by a general formula I (R1 = m- or p-phenyl-substituted tetrazole, -NHCO(NH)mR3, -CONH(CO)nR4; R2 = H, m- or p-phenyl-substituted

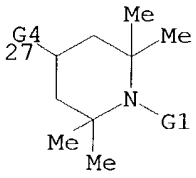
tetrazole, -NHCO(NH)mR3, -CONH(CO)nR4; R3 = C2-5-alkyl; R4 = -S-R5-substituted C1-3 alkyl; m, n = 0, 1; R5 = alkyl, aryl).

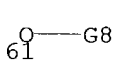
L23 ANSWER 18 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

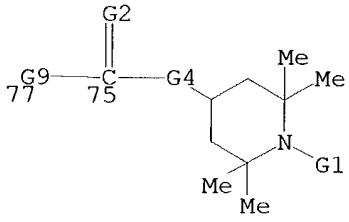
MSTR 1

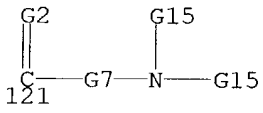


G1 = H / alkyl<(1-8)> / alkenyl<(3-8)> / alkyl<(1-3)> (SR Ph) / cycloalkyl<(5-8)>
G2 = **O / S**
G3 = alkyl<(1-8)> / NH2 / 27 / 61 / **77** / 121 / Ph (SO G11)



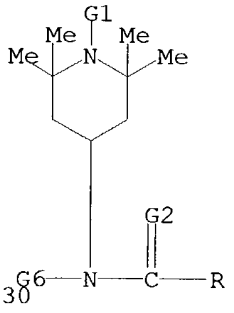


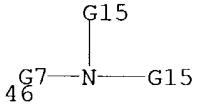


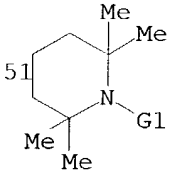


G4 = NH / 28

G5 = alkyl<(1-8)> / alkenyl<(3-8)> / cycloalkyl<(5-8)> / 30 / 46 / 51

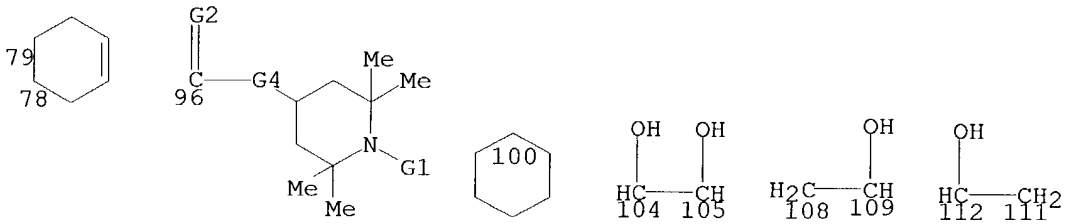


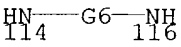




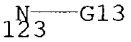
G6 = **(2-12) CH2**

G7 = (2-6) CH2
G8 = alkyl<(1-4)> / cyclohexyl / CH2Ph
G9 = G10 / 79-13 78-75 / phenylene (SO (1) 96) / cyclohexylene / 100 / CH=CH / 104-13 105-75 / 108-13 109-75 / 112-13 111-75 / 114-13 116-75

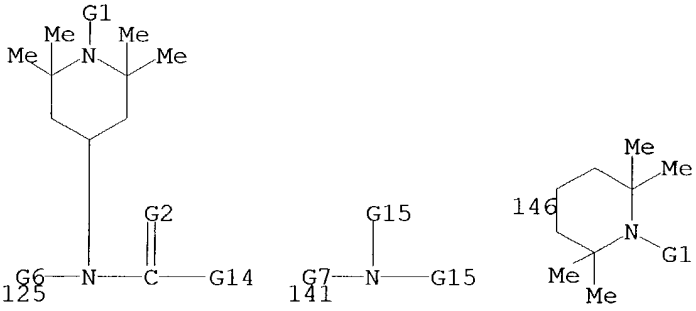




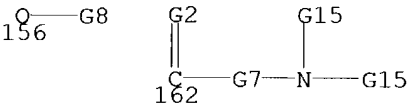
G10 = (0-8) CH2
G11 = OH / alkoxy<(1-4)> / alkyl<(1-4)>
G12 = NH / **123**



G13 = alkyl<(1-8)> / alkenyl<(3-8)> / cycloalkyl<(5-8)> / **125** / 141 / 146



G14 = alkyl<(1-8)> / NH2 / R / 156 / **162** / Ph (SO G11) / (EX Me / octyl)



G15 = alkyl<(1-4)>
MPL: claim 1

ACCESSION NUMBER: 128:23612 MARPAT

TITLE: Stabilizer combinations for halogen-containing polymers
INVENTOR(S): Zinke, Horst; Wehner, Wolfgang; Kuhn, Karl Josef; Borzatta, Valerio; Rytz, Gerhard
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Brit. UK Pat. Appl., 39 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

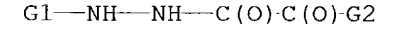
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2311292	A1	19970924	GB 1997-5846	19970321
GB 2311292	B2	20001004		
DK 9700296	A	19970923	DK 1997-296	19970317
SE 9701011	A	19970923	SE 1997-1011	19970319
CA 2200536	AA	19970922	CA 1997-2200536	19970320
ZA 9702426	A	19970922	ZA 1997-2426	19970320
FR 2746405	A1	19970926	FR 1997-3402	19970320
DE 19711690	A1	19971106	DE 1997-19711690	19970320
NL 1005608	A1	19970923	NL 1997-1005608	19970321
NL 1005608	C2	20000522		
NO 9701335	A	19970923	NO 1997-1335	19970321
JP 10045983	A2	19980217	JP 1997-108012	19970321
BR 9701422	A	19981110	BR 1997-1422	19970321
BE 1012198	A5	20000704	BE 1997-251	19970321
GB 2345695	A1	20000719	GB 2000-9508	19970321
GB 2345695	B2	20001004		
GB 2345696	A1	20000719	GB 2000-9511	19970321
GB 2345696	B2	20000823		
ES 2147078	A1	20000816	ES 1997-618	19970321
ES 2147078	B1	20010401		

PRIORITY APPLN. INFO.: CH 1996-751 19960322
GB 1997-5846 19970321

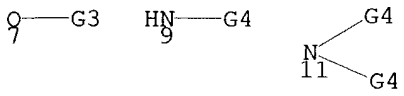
AB The stabilizer combinations comprise (A) at least 1 organozinc compound with a Zn-O bond and/or a Zn-S bond and (B) at least 1 of the 4-aminopiperidine compds. At least some of the organozinc compound may be replaced by an inorg. zinc compound A B-type stabilizer such as N,N'-bis[2,2,6,6-tetramethylpiperidin-4-yl]oxamide could be prepared by the reaction between 4-amino-2,2,6,6-tetramethylpiperidine and di-Et oxalate.

L23 ANSWER 19 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

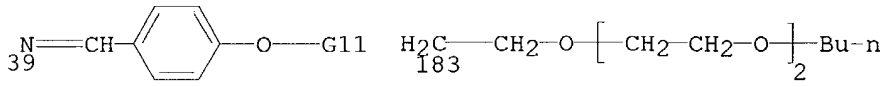
MSTR 1

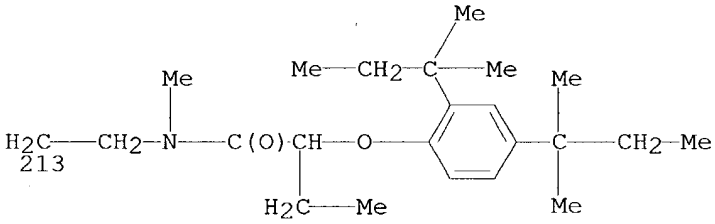


G1 = **Ph (SO (1-) G6)** / naphthyl
G2 = OH / 7 / NH2 / 9 / 11 / Hy<EC (1-) N, AN (1-) N> / (EX piperidino)

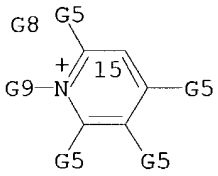


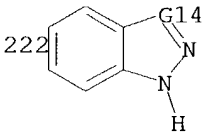
G3 = alkyl (SO) / alkenyl (SO) / Hy (SO) / aryl (SO) / (EX Et / 39 / 183 / Me / 213 / octadecyl)

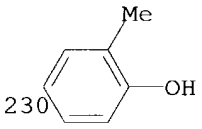


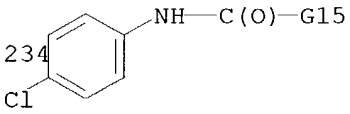


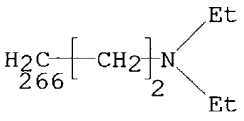
G4 = alkyl (SO) / aryl (SO) / Hy (SO) / 15 / (EX 272 / 222 / 230 / 234 / 3-pyridyl / 266 / 279 / 286 / 293 / 321 / 324 / 329 / 335 / 341)

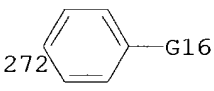


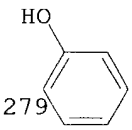


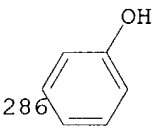


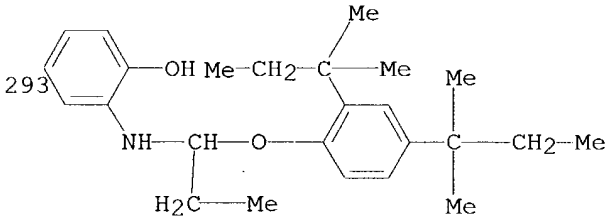


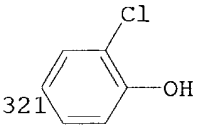


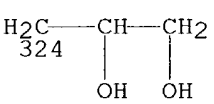


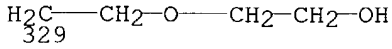


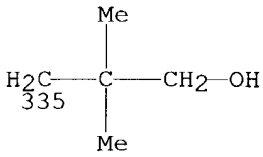


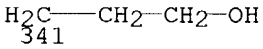




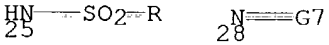


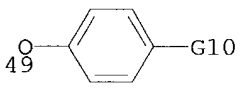


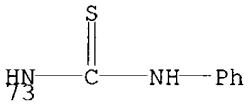


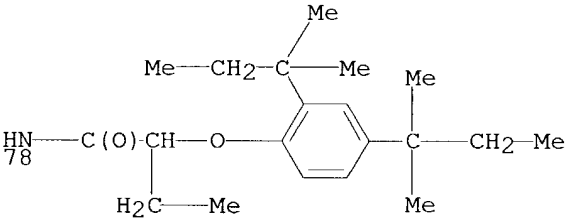


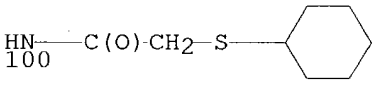
G5 = H / alkyl (SO) / aryl (SO) / alkoxy (SO) / (EX Me)
G6 = R / (EX alkyl / aryl / OH / X / alkoxy / alkylthio / aryloxy / alkenyl / NH2 / acylamino / 25 / 28 / NHCONH2 / Hy / **Me** / OMe / 49 / 73 / 78 / NHPh / **100** / NHSO2Ph / 110 / 159)

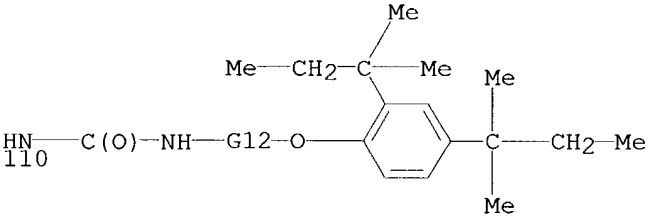


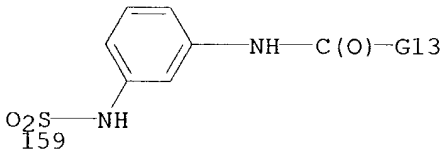




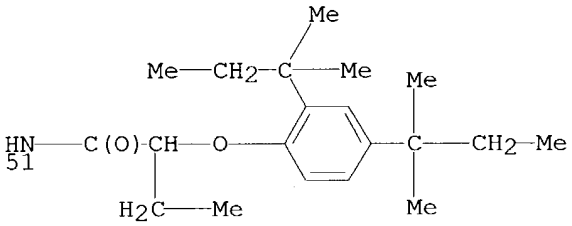




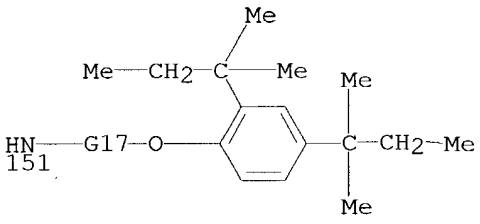


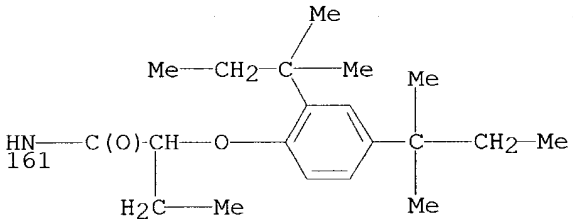


G7 = alkylidene
G8 = R<TX "anion", CH (1) -> / (EX chloride / bromide / iodide / p-toluenesulfonate)
G9 = alkyl (SO) / aralkyl (SO) / alkenyl (SO) / (EX Me / Et)
G10 = Bu-t / 51

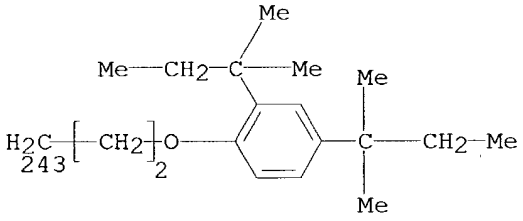


G11 = Bu-n / hexyl
G12 = CH2CH2CH2 / CH2
G13 = 151 / 161





G14 = CH / N
G15 = tridecyl / 243



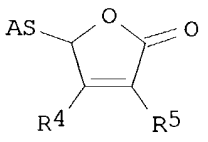
G16 = Me / OH
G17 = CH2CH2CH2 / CH2
MPL: claim 1

ACCESSION NUMBER: 127:352946 MARPAT
TITLE: Silver halide photographic material containing hydrazine and antifogging agent precursor with stable handling possibility under safelight
INVENTOR(S): Asano, Masato; Okujima, Katsuo
PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

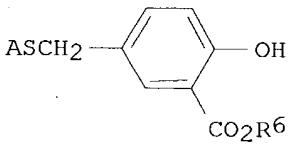
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09258357	A2	19971003	JP 1996-63079	19960319
PRIORITY APPLN. INFO.:			JP 1996-63079	19960319

GI



I

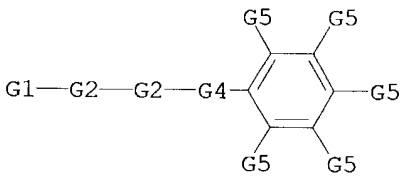


II

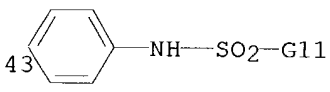
AB The material contains ArNHNHC(:O)C(:O)R [Ar = aryl; R = OR1, NR2R3; R1 = H, (un)substituted alkyl, (un)substituted alkenyl, (un)substituted unsatd. heterocycle, (un)substituted aryl; R2-3 = H, (un)substituted alkyl, (un)substituted aryl, (un)substituted heterocycle, (un)substituted pyridinium; R2 and R3 may form a ring] and I or II (A = heterocyclic group of mercapto antifogging agent; R4-5 = halo, alkyl, aryl, aryloxy; R4 and R5 may form benzene ring; R6 = H, alkyl) in a photosensitive Ag halide emulsion layer or a hydrophilic colloid layer. The material gave high-contrast images and shows stable handling possibility for a long time under safelight.

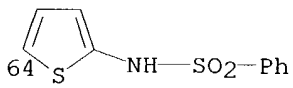
L23 ANSWER 20 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

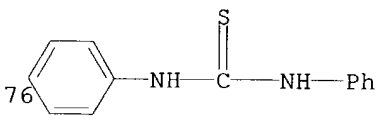
MSTR 1

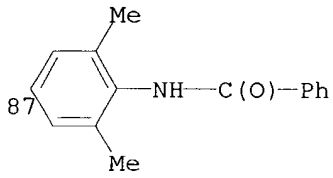


G1 = aryl (SO (1-) G6) / Hy (SO (1-) G6) / (EX 43 / 64 / 76 / 87)

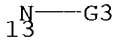




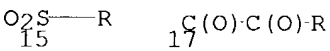




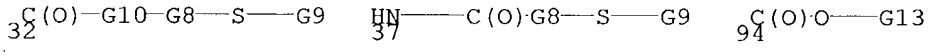
G2 = (1-) NH / 13

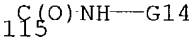


G3 = acyl / 15 / 17 / (EX COMe / SO2Et)

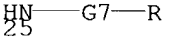


G4 = R<TX "linking group"> / (EX C(O) / SO2 / S(O))
G5 = (2-) H / R<TX "organic group containing three or more ethyleneoxy repeating units"> / **(SC 32 / 37)** / (EX 94 / 115)

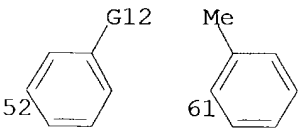




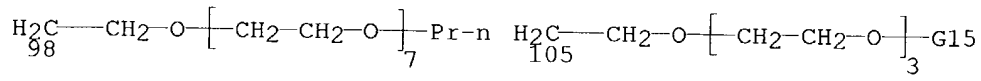
G6 = R / (EX X / alkyl / alkenyl / alkynyl / alkoxy / aryl / aralkyl / aryloxy / OH / CO2H / acyl / NH2 / acylamino / 25 / CONH2 / SO2NH2 / alkoxycarbonyl)

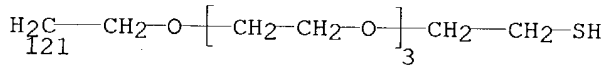


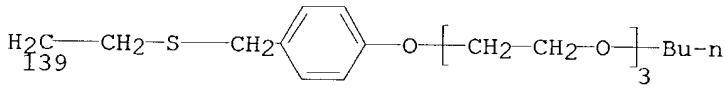
G7 = C(O) / SO2
G8 = **(1-6) CH2**
G9 = R<TX "organic group containing three or more ethyleneoxy repeating units">
G10 = O / NH
G11 = Ph / 52 / 61 / 2-thienyl

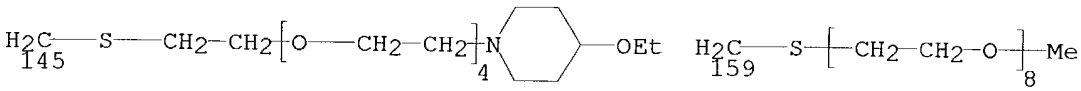


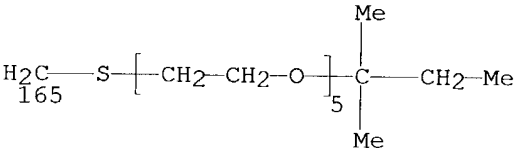
G12 = NHCOPh / OMe
G13 = 98 / 105 / 121 / 139 / 145 / 159 / 165 / 195 / 197 / 225 / 233

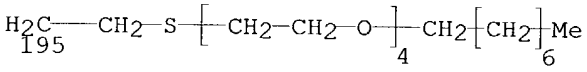


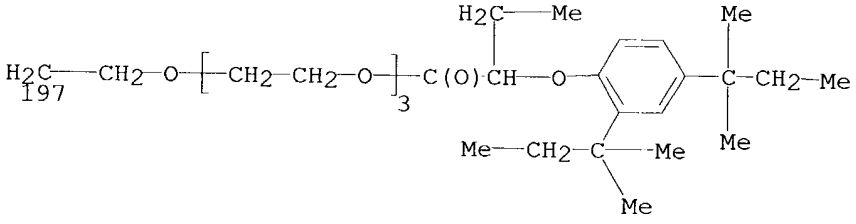


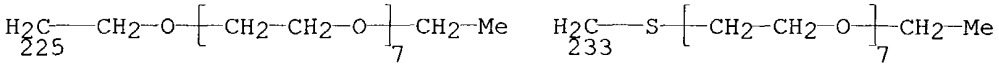




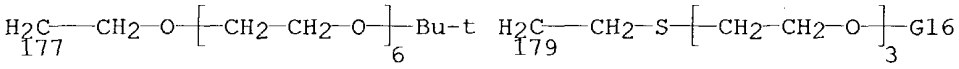








G14 = 177 / 179

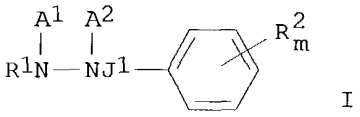


G15 = pentyl / 2-thienyl
G16 = CH2Ph / C(Me)2CH2Me
MPL: claim 1

ACCESSION NUMBER: 126:82142 MARPAT
TITLE: Silver halide photographic material and processing thereof
INVENTOR(S): Sudo, Susumu; Komamura, Tawara; Ikeuchi, Satoru; Kato, Katsunori
PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08272022	A2	19961018	JP 1995-71573	19950329

PRIORITY APPLN. INFO.: JP 1995-71573 19950329
GI



I

AB The title material contains ≥1 hydrazine compound I [R1 = (substituted) aromatic group or heterocycle; A1 = A2 = H or when 1 of them is H, the other is acyl, sulfonyl, or oxalyl [sic] group; J1 = divalent linking group; R2 = organic group having ≥3 ethyleneoxy repeating units; m = 1-3]. The material is processed with a developing solution of pH ≤11.0. The material shows high contrast even when processed with developing solns. of pH <11 and provides high quality images with low fog.

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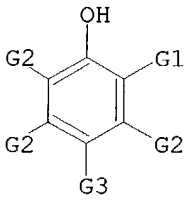
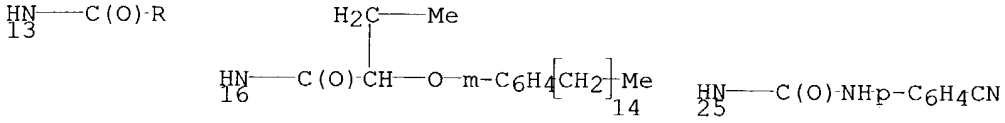
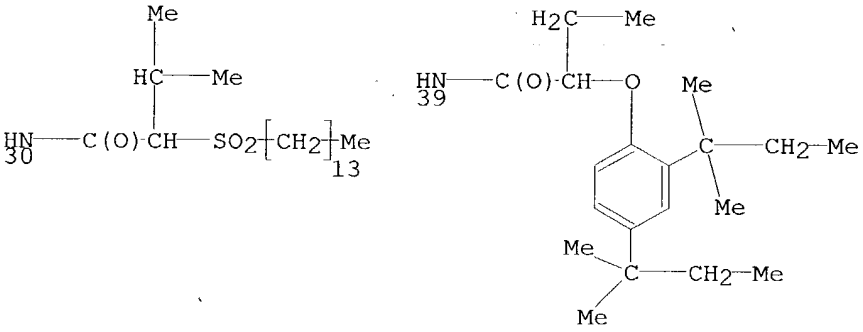
MSTR 2



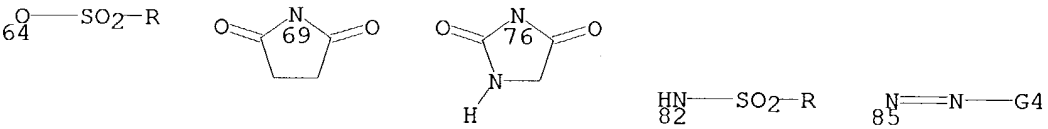
G1 = R / **(SC CONH2** / NHCONH2 / 13 / 16 / 25)



G2 = R / (2) H / (SC Cl / **Et** / **30** / 39)



G3 = H / R<TX "coupling-off group"> / (SC Cl) / (EX 64 / alkoxy / aryloxy / 69 / acyloxy / acyl / Hy<EC (1-) N> / 76 / 82 / 85 / tetrazolyl (SR SH) / benzothiazolyl / alkylthio / OPO3H2)



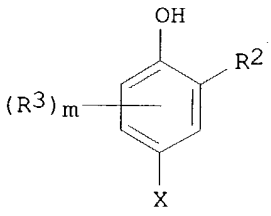
G4 = aryl
MPL: claim 1

ACCESSION NUMBER: 124:302396 MARPAT
TITLE: Chromogenic black-and-white motion picture film
INVENTOR(S): Barber, Gary N.; Greco, Patricia R.; Bogdanowicz, Mitchell J.; Kelly, Elizabeth L.
PATENT ASSIGNEE(S): Eastman Kodak Company, USA
SOURCE: U.S., 40 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

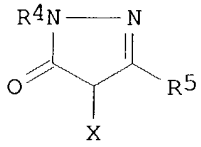
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5491053	A	19960213	US 1994-363461	19941223
US 5536629	A	19960716	US 1995-551084	19951031
JP 08234377	A2	19960913	JP 1995-335007	19951222
PRIORITY APPLN. INFO.:			US 1994-363461	19941223

GI



I



II

AB The invention relates to a photog. element comprising a yellow coupler represented by formula R1COCH(X)CONHY (R1 = a substituent; X = H or a coupling-off group; Y = aryl or a heterocyclic group), a cyan coupler represented by formula I (R2, R3 = a substituent; X = H or a coupling-off group; m = 1-3), and a magenta coupler represented by formula II (R4, R5 = a substituent; X = H or a coupling-off group) to provide a relative fixed upper scale contrast between 1.1 and 1.8.

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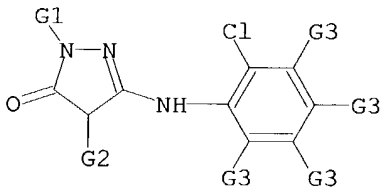
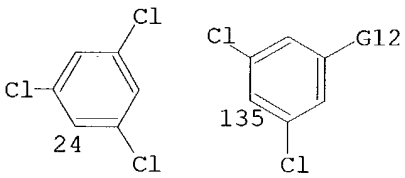
MSTR 3

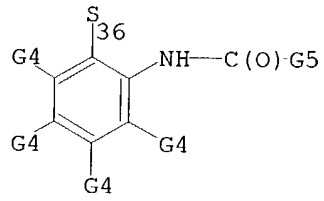


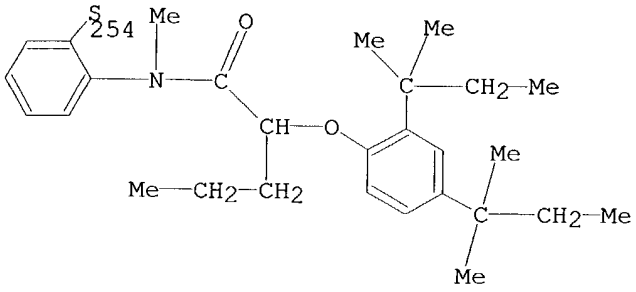
G1 = aryl (SO) / (SC 24) / (EX 135)

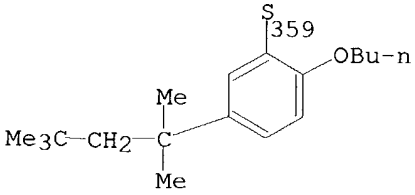


G2 = R<TX "leaving group"> / (SC alkylthio / arylthio /

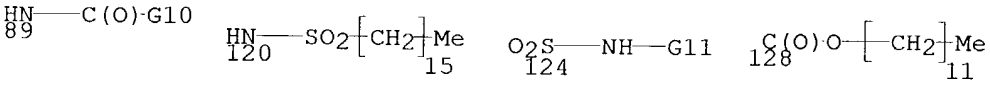
36) / (EX 254 / 359)

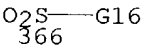




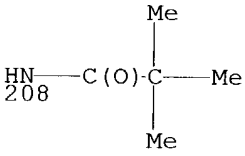


G3 = H / R<TX "ballast group"> / (SC 366 / SO2NH2) / **(EX 89** / Cl / 120 / 124 / **128)**

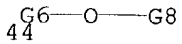


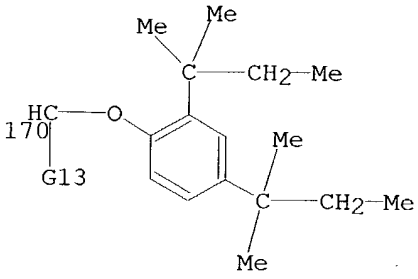


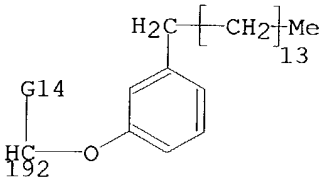
G4 = H / R / (EX 208 / CO2Bu-n / OMe)

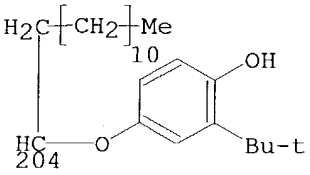


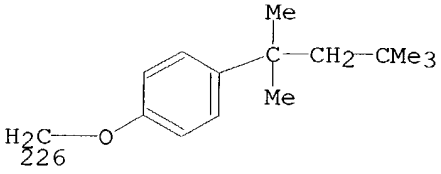
G5 = R<TX "ballast group"> / 44 / (EX 170 / 192 / 204 / 226 / 271 / 284 / 306 / 321 / 332 / 352)

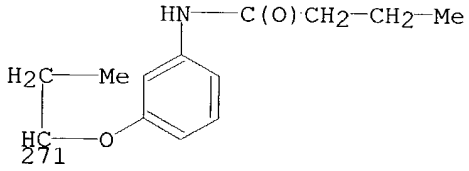


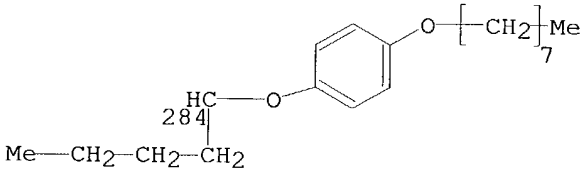


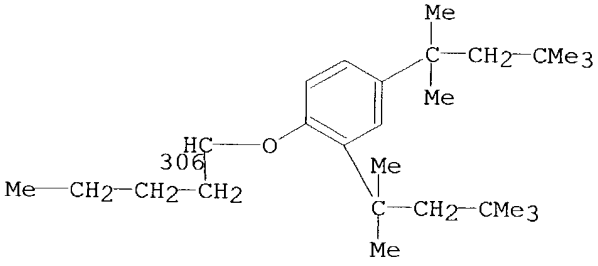


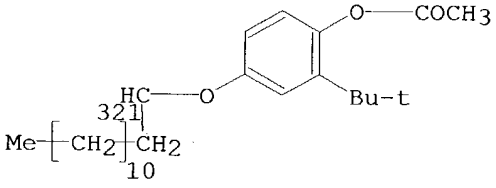


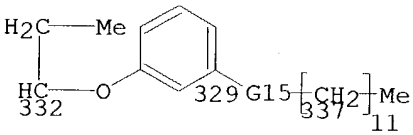


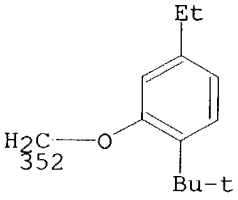






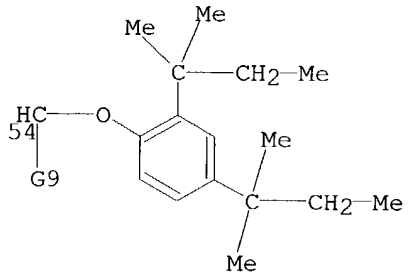


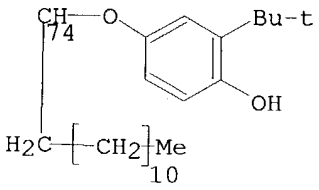


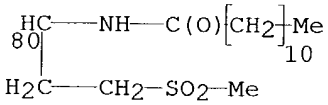


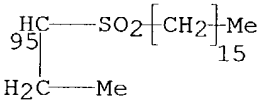
G6 = CH2 / alkylene<DC (0) M3> (SO (-1) G7)
G7 = aryl / Hy

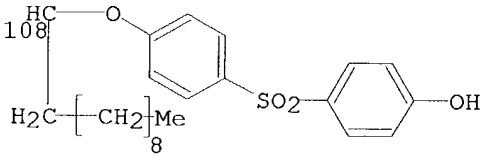
G8 = Ph (SO alkyl)
G9 = Et / Bu-n
G10 = tridecyl / 54 / 74 / 80 / **95** / 108



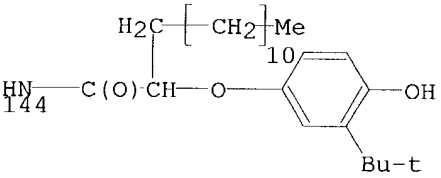


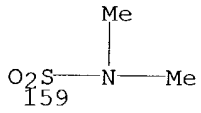




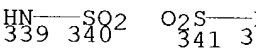


G11 = octadecyl / dodecyl
G12 = 144 / 159





G13 = Et / Bu-n / hexyl / octyl / dodecyl / H
G14 = Et / H
G15 = 339-329 340-337 / 341-329 342-337



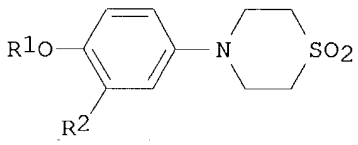
G16 = R / (EX dodecyl / Me)
MPL: claim 2

ACCESSION NUMBER: 124:215906 MARPAT
TITLE: Photographic elements containing 2-equivalent pyrazolone magenta dye forming couplers and fade reducing compounds
INVENTOR(S): Jain, Rakesh; Schleigh, William R.; Stewart, Robert C.
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: U.S., 14 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5484696	A	19960116	US 1994-362635	19941222
EP 718685	A1	19960626	EP 1995-203526	19951216
R: BE, DE, FR, GB, NL				
JP 08220711	A2	19960830	JP 1995-333577	19951221
PRIORITY APPLN. INFO.:			US 1994-362635	19941222

GI



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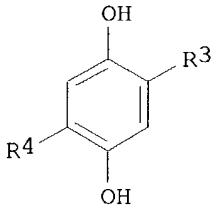
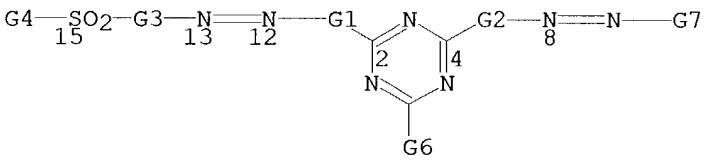


II

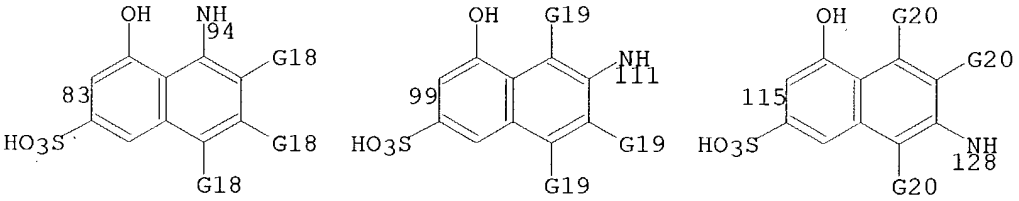
AB A silver halide photog. element has a light sensitive Ag halide-containing layer also containing a 2-equiv pyrazolone magenta coupler, a compound of formula I, and a hydroquinone compound II wherein: R1 is an alkyl group; and R2, R3 and R4 are independently an alkyl group or H. The presence of the compound I when used with the two-equivalent pyrazolone magenta coupler and compound II, can result in low magenta dye fade, increased wavelength of maximum absorption of the magenta dye and increased magenta dye bandwidth.

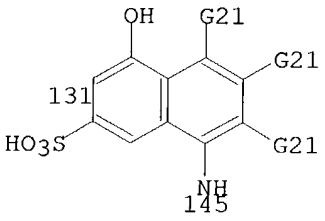
L23 ANSWER 23 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

MSTR 1

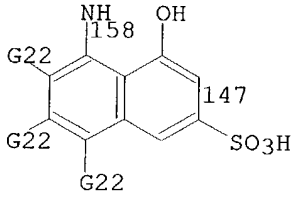


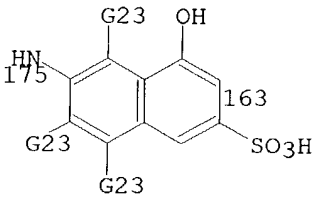
G1 = R<TX "coupling component"> / (SC 94-2 83-12 / 111-2 99-12 / 128-2 115-12 / 145-2 131-12)

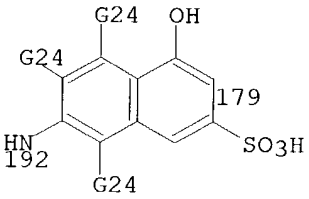


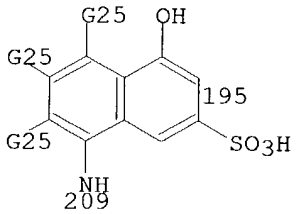


G2 = R<TX "coupling component"> / (SC 158-4 147-8 / 175-4 163-8 / 192-4 179-8 / 209-4 195-8)

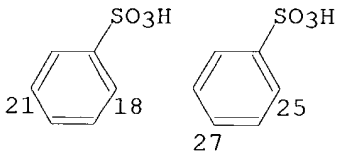




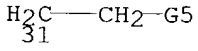




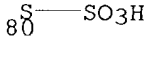
G3 = 18-13 21-15 / 25-13 27-15



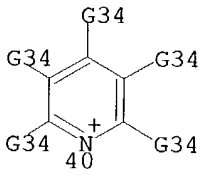
G4 = CH=CH2 / 31



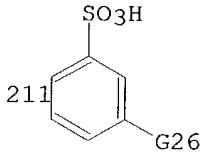
G5 = R<TX "cleavable group"> / (SC OSO3H / OPO3H2 / OCOMe / Cl / OSO2Me / 80)

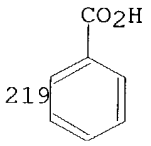


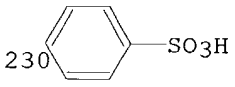
G6 = X / F / Cl / 40

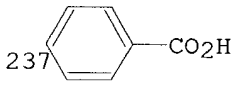


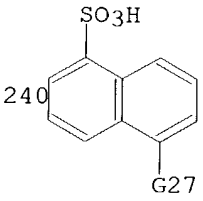
G7 = R<TX "diazo component"> / **(SC Ph (SO G8)** / naphthyl (SO) / Cb<EC (10) C, AR (1-), BD (ALL) N, RC (2), RS (2) E6> (SO G8) / 211 / 219 / 230 / 237 / 240 / 252 / 263 / 273 / 285 / 293 / 308 / 324 / 338 / 346 / 354 / 366 / 379 / 454 / 464 / 471)

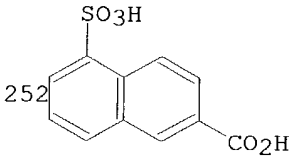


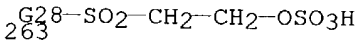


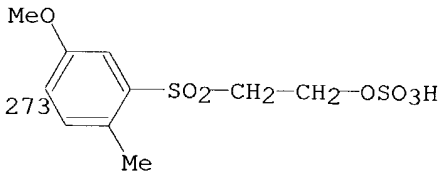


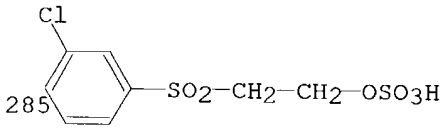


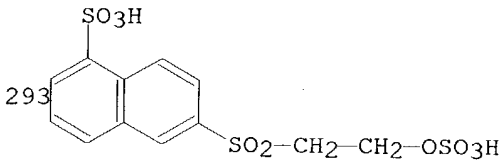


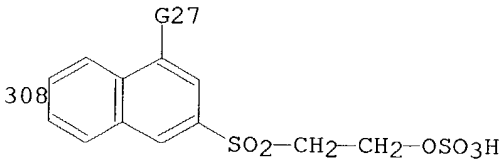


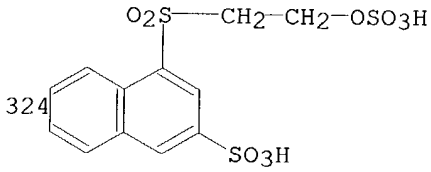










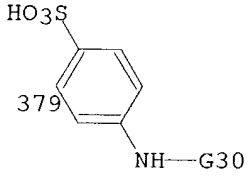


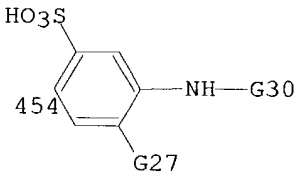
m-C6H4C(O)·NH—G29—SO2—CH2—CH2—OSO3H
338

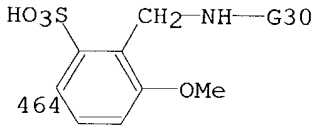
m-C6H4NH—C(O)[CH2]3SO2—CH2—CH2—OSO3H
346

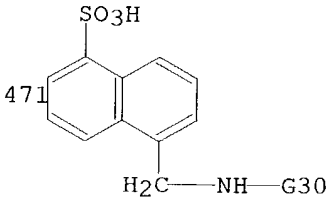
m-C6H4C(O)·NH—CH2—CH2—O—CH2—CH2—SO2—CH2—CH2—OSO3H
354

m-C6H4C(O)·NH-p-C6H4SO2—CH2—CH2—OSO3H
366

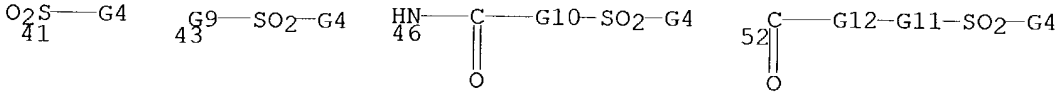


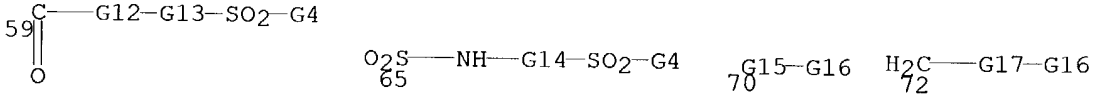






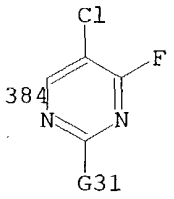
G8 = R / 41 / 43 / 70 / **(SC 46** / 52 / 59 / 65 / 72 / 75)

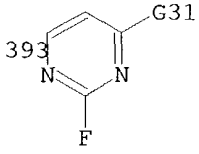


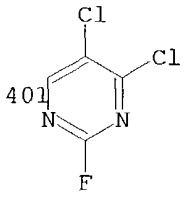


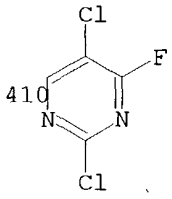
HN—C(O)-m-C_6H_4NH—G16
75

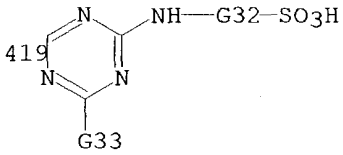
G9 = R<TX "divalent bridging group"> / (SC NH / NMe / NEt / **CH2)**
G10 = **(1-4) CH2**
G11 = (2-4) CH2
G12 = NH / NMe / NEt
G13 = phenylene
G14 = phenylene
G15 = R<TX "divalent bridging group"> / (SC NH / NMe / NEt)
G16 = R<TX "fiber-reactive group">
G17 = NH / NMe
G18 = H / (-1) SO3H
G19 = H / (-1) SO3H
G20 = H / (-1) SO3H
G21 = H / (-1) SO3H
G22 = H / (-1) SO3H
G23 = H / (-1) SO3H
G24 = H / (-1) SO3H
G25 = H / (-1) SO3H
G26 = H / OMe / Me
G27 = H / SO3H
G28 = m-C6H4 / p-C6H4
G29 = (2-4) CH2
G30 = 384 / 393 / 401 / 410 / 419 / 429 / 437

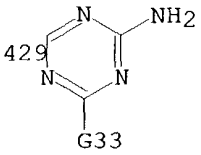


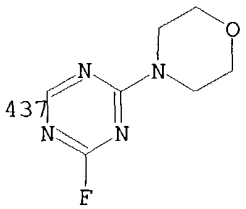












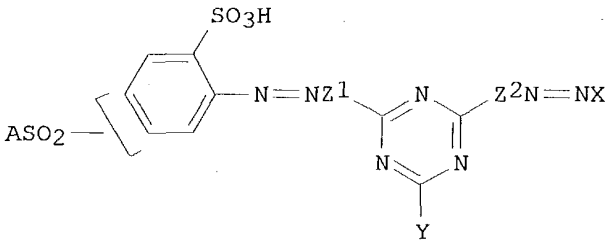
G31 = F / H
G32 = phenylene
G33 = Cl / F
G34 = H / R
MPL: claim 1
NTE: substitution is restricted

ACCESSION NUMBER: 124:148714 MARPAT
TITLE: Reactive disazo dyes, their preparation and their use.

INVENTOR(S): Jaeger, Horst; Wolff, Joachim
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Eur. Pat. Appl., 29 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 685532	A1	19951206	EP 1995-107602	19950518
R: CH, DE, FR, GB, LI				
DE 4418992	A1	19951207	DE 1994-4418992	19940531
US 5625042	A	19970429	US 1995-449194	19950524
JP 07331100	A2	19951219	JP 1995-149736	19950525
CA 2150303	AA	19951201	CA 1995-2150303	19950526
PRIORITY APPLN. INFO.:			DE 1994-4418992	19940531

GI

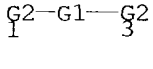


I

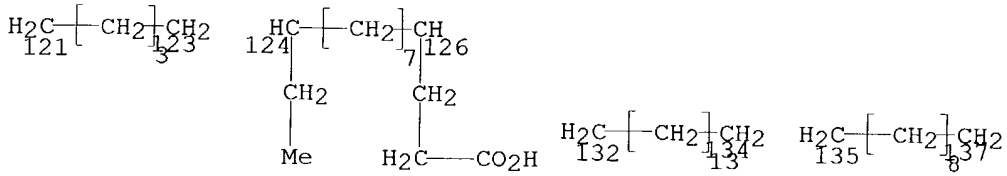
AB The asym. dyes (I; A = vinyl or group convertible thereto; X = diazo component; Y = halogen, pyridinium group; Z1, Z2 = coupling component) are obtained by sequential coupling using different diazo components. I provide fast dyeings and prints on cellulosics and polyamide. Thus, H acid was condensed with cyanuric chloride and to give a coupling component which was then coupled first with 4-(β-sulfatoethylsulfonyl)aniline and then with 4-(β-sulfatoethylsulfonyl)-2-sulfoaniline to provide a disazo dye (λmax 520). The dye gave clear reddish yellow shades to cotton.

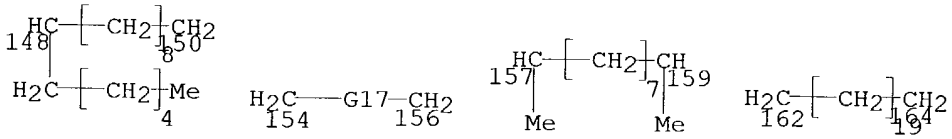
L23 ANSWER 24 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

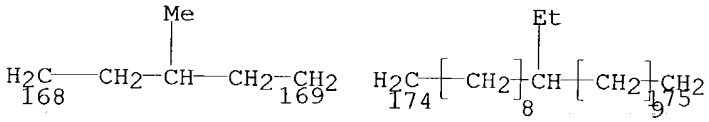
MSTR 2B



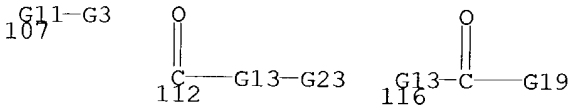
G1 = Ak<EC (3-100) C, BD (0-) D (0-) T> (SO (1-) G5) /
(EX 121-1 123-3 / 124-1 126-3 / 132-1 134-3 / 135-1 137-3 /
148-1 150-3 / **154-1 156-3** / 157-1 159-3 / 162-1 164-3 /
168-1 169-3 / 174-1 175-3)



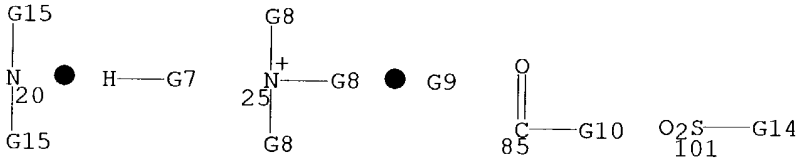




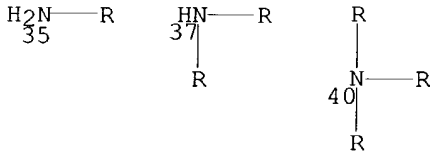
G2 = 107 / (EX 112 / **116)**



G3 = Ak<EC (4-100) C, BD (0-) D (0-) T> (SO (1-) G5) /
Cb<EC (4-100) C, BD (0-) D> (SO (1-) G5)
G4 = H / alkyl<(1-8)> / alkenyl<(1-8)> / alkynyl<(1-8)>
G5 = OH / 85 / 20 / 25 / 101

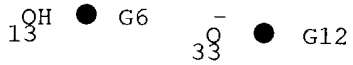


G6 = R<TX "cation"> / (EX alkali metal atom /
alkaline earth metal atom / NH3 / 35 / 37 / 40)

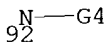


G7 = R / (EX X)
G8 = alkyl<(1-8)> / alkenyl<(1-8)> / alkynyl<(1-8)>

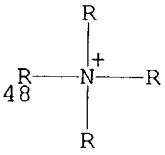
G9 = R<TX "anion"> / (EX halogen anion)
G10 = OH / 13 / NH2 / 33



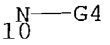
G11 = R<TX "divalent linking group"> / O / S / 92 / S(O) / SO2



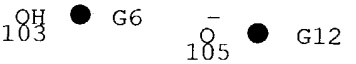
G12 = R<TX "cation"> / (EX 48)



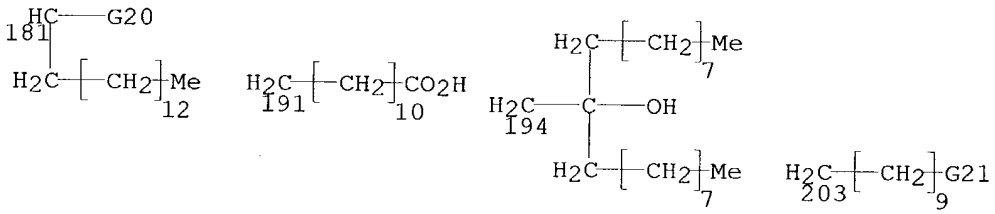
G13 = O / **10**

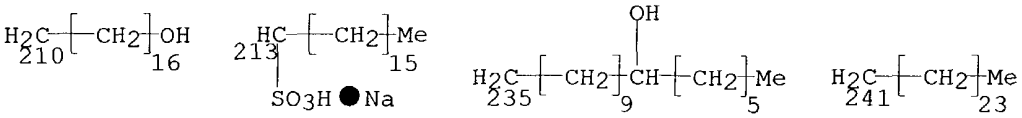


G14 = OH / 103 / 105

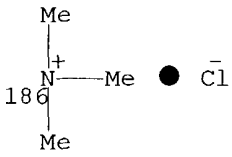


G15 = H / alkyl<(1-8)> / alkenyl<(1-8)> / alkynyl<(1-8)>
G17 = G18 / CHOH
G18 = **(5-6) CH2**
G19 = Ak<EC (4-100) C, BD (0-) D (0-) T> (SO (1-) G5) / Cb<EC (4-100) C, BD (0-) D> (SO (1-) G5) / (EX 181 / decyl / 191 / 194 / 203 / pentadecyl / octyl / 210 / **213** / heptadecyl / 235 / 241)

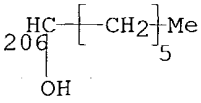




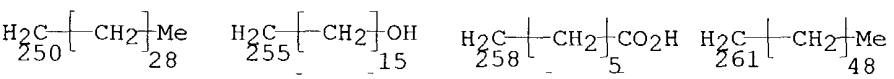
G20 = OH / 186

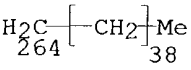


G21 = CONH2 / 206



G23 = Ak<EC (4-100) C, BD (0-) D (0-) T> (SO (1-) G5) /
Cb<EC (4-100) C, BD (0-) D> (SO (1-) G5) / octyl / decyl /
250 / 255 / 258 / 261 / 264





MPL: claim 11
NTE: substitution is restricted

ACCESSION NUMBER: 124:71449 MARPAT
TITLE: Silver halide photographic material comprising emulsion layer and backing layer provided on support
INVENTOR(S): Miyamoto, Hajime
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 44 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

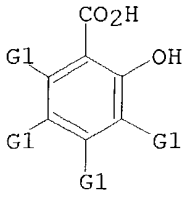
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 668534	A2	19950823	EP 1994-120520	19941223

EP 668534	A3	19970702		
EP 668534	B1	19991103		
R: DE, FR, GB, IT, NL				
JP 07181623	A2	19950721	JP 1993-345871	19931224
JP 3123872	B2	20010115		
JP 07209799	A2	19950811	JP 1994-7197	19940126
US 5547820	A	19960820	US 1994-362925	19941223
PRIORITY APPLN. INFO.:			JP 1993-345871	19931224
			JP 1994-7197	19940126

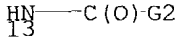
AB A silver halide photog. material comprises a silver halide emulsion layer and a surface backing layer provided a support. The surface backing layer contains a aliphatic hydrocarbon compound represented by Cn1Hm1-X1-Cn2Hm2 or Cn3Hm3-X2-Cn4Hm4-X3-Cn5Hm5 (X1-3 = CO, O, S, NR1, SO, SO2; R1 = H, C1-8 aliphatic; n1, n2, n3, n5 = 4-100; mm, m2, m3, m5 = 9-201; n4 =3-100; m4 =6-200; n1 + n2 = 25-120; n3 + n4 + n5 = 30-150; at least one H atom of the groups Cn1Hm1-, -Cn2Hm2,Cn3Hm3-, -Cn4Hm4- and -Cn5Hm5 is substituted with a polar group selected from -OH, -COOM1, -NH2, -N+R2R3R4R5A-, CONH2 and -SO3M2; R2-5 = H, C1-8 aliphatic; M1, M2 = cation; A = anion).

L23 ANSWER 25 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

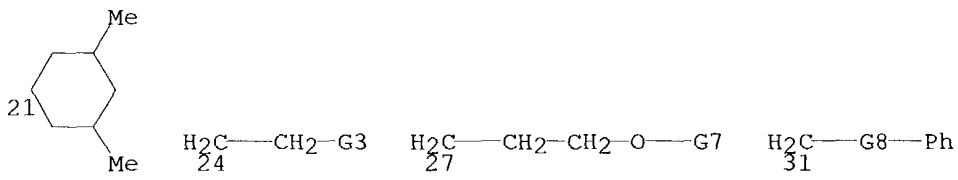
MSTR 1

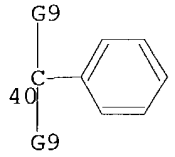


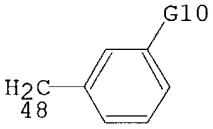
G1 = **(1) 13** / (1-) H / alkyl / alkoxy / X / (EX cycloalkyl<(5-14)> / **Me** / Et / OMe / OPr-i / Bu-t / OPr-n / OPh)

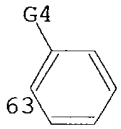


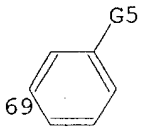
G2 = alkyl (SO) / aralkyl (SO) / aryl (SO) / (EX cycloalkyl (SO) / Ph / naphthyl / heteroaryl (SO) / Me / Pr-n / nonyl / octadecyl / cyclohexyl / 21 / 24 / 27 / **31** / 40 / 48 / 55 / 63 / 69 / 75 / 82 / Et / Pr-i / Bu-t / hexyl / 232 / 109 / 118 / 149 / Bu-n / dodecyl / 157 / 160 / 167 / 172 / 189 / 190 / 200 / 204 / 228 / CH2CH2CHMe2 / hexadecyl / 242 / 268 / 275 / 296 / 313 / 320 / 354)

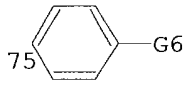


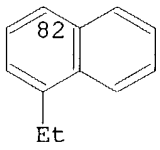


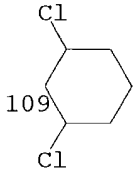


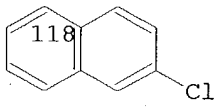


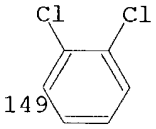


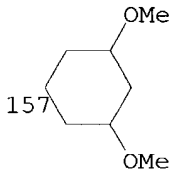


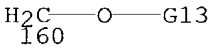


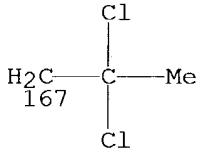


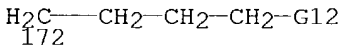


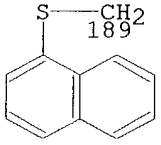


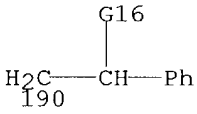


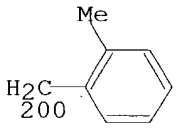


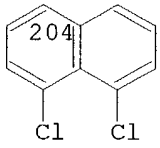


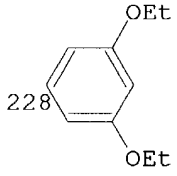


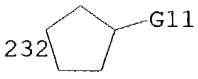


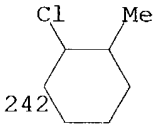


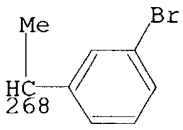


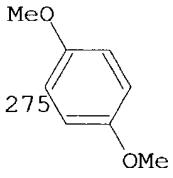


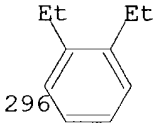


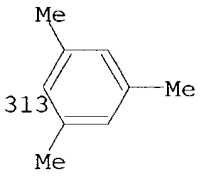


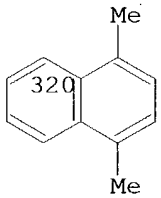


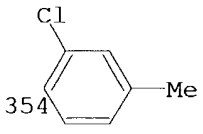




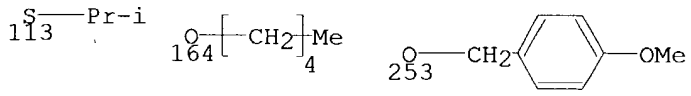




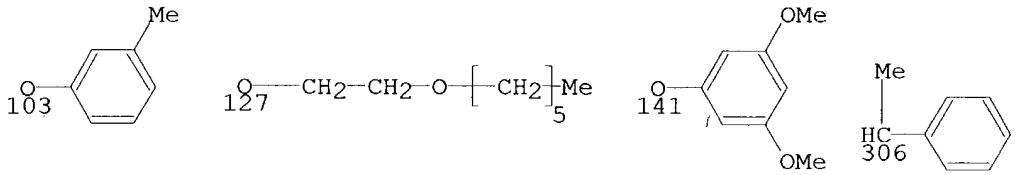


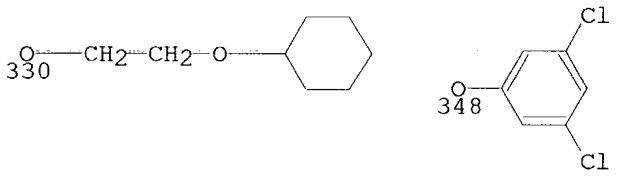


G3 = OMe / OCH2Ph / SEt / OPr-n / SCH2Ph / 113 / 164 / 253

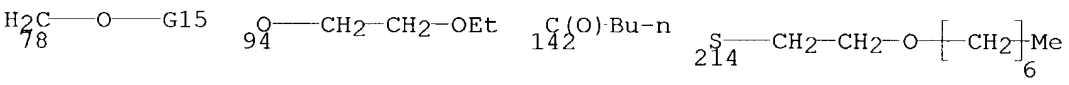


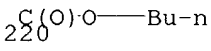
G4 = Et / Ph / COMe / Pr-i / cyclohexyl / CO2Et / OPh / CO2CH2Ph
G5 = cyclohexyl / 103 / SEt / 127 / 141 / Bu-t / 306 / 330 / 348



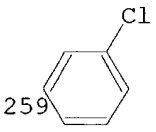


G6 = 78 / 94 / CO2Me / 142 / 214 / OCOMe / 220 / COPh





G7 = Bu-n / pentyl / 259 / Ph



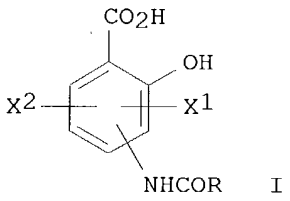
G8 = **S** / O
G9 = H / Me
G10 = Cl / OPr-i
G11 = H / Et
G12 = SEt / OBu-n
G13 = hexyl / pentyl
G14 = OH / OMe
G15 = Et / Bu-n
G16 = H / Me

DER: as Zinc salt hydrates
MPL: claim 1

ACCESSION NUMBER: 123:127700 MARPAT
TITLE: Salicylic acid derivative zinc salt hydrate, its manufacture, and thermal recording material using it as color developer
INVENTOR(S): Motojima, Toshihiro; Ootsuji, Atsuo; Kida, Jotaro; Nakatsuka, Masakatsu
PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Japan; Yamamoto Chemicals Inc
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07089918	A2	19950404	JP 1993-232879	19930920
PRIORITY APPLN. INFO.:			JP 1993-232879	19930920

GI

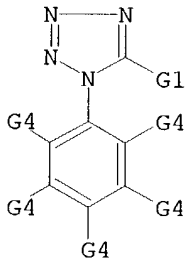


I

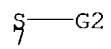
AB The claimed substance is a Zn salt hydrate of a salicylic acid derivative I (X1-2 = H, alkyl, alkoxy, halo; R = alkyl, aralkyl, aryl). The Zn salt hydrate of I is manufactured by heating its anhydride in the presence of H2O. The recording material containing an electron-donating coloring compound and an electron-accepting compound contains ≥1 Zn salt hydrate of I. The material showed good humidity and oil resistances.

L23 ANSWER 26 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

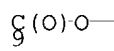
MSTR 1



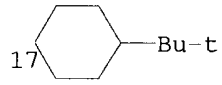
G1 = SH / 7



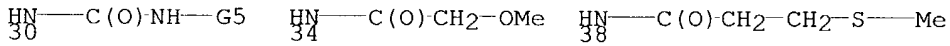
G2 = R<TX "alkali cleavable group"> / (EX 9)

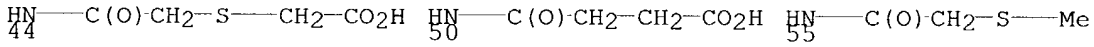


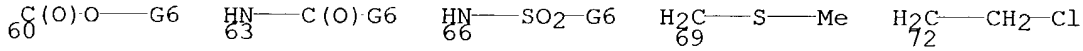
G3 = R / alkyl / cycloalkyl / aryl / Et / Ph / Pr-i / Bu-i / Bu-n / cyclohexyl / 17

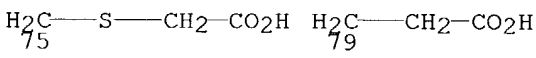


G4 = (2-) H / X / OH / alkyl<(1-4)> (SO) / alkoxy<(1-4)> / **60** / CONH2 / alkylaminocarbonyl<(1-4)> / dialkylaminocarbonyl<(1-4)> / SO2NH2 / alkylaminosulfonyl<(1-4)> / dialkylaminosulfonyl<(1-4)> / **63** / 66 / 30 / (EX CH2OMe / 69 / 72 / 75 / 79 / NHCOMe / Me / Cl / 34 / CO2Et / 38 / 44 / 50 / 55)

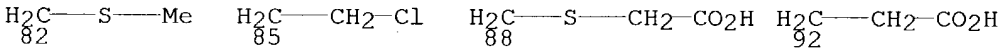








G5 = alkyl<(1-4)> / (EX Me)
G6 = alkyl<(1-4)> (SO) / (EX CH2OMe / **82** / 85 / 88 / 92)



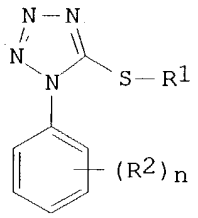
MPL: claim 1

ACCESSION NUMBER: 121:289500 MARPAT
TITLE: Color photographic recording materials for producing colored images
INVENTOR(S): Heinecke, Juergen; Maeder, Helmut; Nittel, Fritz;

	Oehlschlaeger, Hans; Voigt, Armin
PATENT ASSIGNEE(S):	Agfa-Gevaert AG, Germany
SOURCE:	Ger. Offen., 55 pp.
	CODEN: GWXXBX
DOCUMENT TYPE:	Patent
LANGUAGE:	German
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4310703	A1	19940303	DE 1993-4310703	19930401
US 5374505	A	19941220	US 1993-107350	19930816
PRIORITY APPLN. INFO.:			DE 1992-4228652	19920828
			DE 1993-4310703	19930401

GI



I

AB The title materials, which comprise a support on which are formed ≥1 blue-sensitive Ag halide emulsion layer with an associated yellow coupler, ≥1 green-sensitive Ag halide emulsion layer with an associated magenta coupler, ≥1 red-sensitive Ag halide emulsion layer with an associated cyan coupler, and addnl. non-light-sensitive layers are provided with a stabilizing compound described by the general formula I (R1 = H or a group which can be cleaved under alkaline conditions; R2 = H, a halogen, -OH, a C1-4 alkyl group, a C1-4 alkoxy group, -COOR3, -CONR4R5, -SO2NR4R5, -NH-COR3, -NH-SO2R3, or -NH-CO-NHR4; R3 = a C1-4 alkyl group; R4, R5 = H or a residue like R3; and n = 1,2, or 3) in combination with 1-5 times its weight of a dispersing medium.

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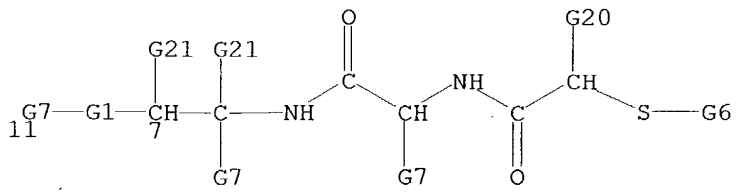
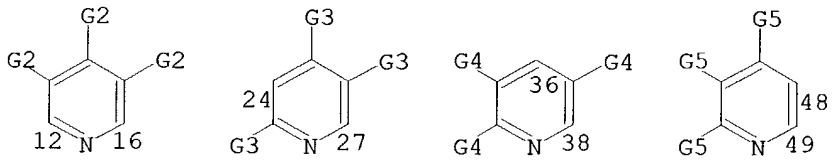
MSTR 1A



G1 = 16-7 12-11 / 27-7 24-11 / 38-7 36-11 / 49-7 48-11



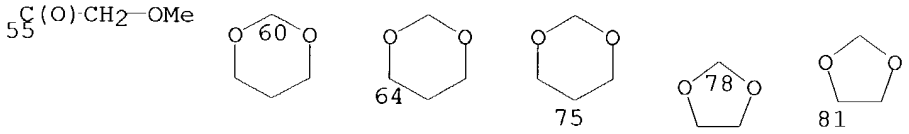
G2 = (2-) H / alkyl<(1-10)> (SO OH) / OH / alkoxy<(1-10)> / alkyl<(1-10)> (SR alkoxy<(1-10)>) / alkoxycarbonyl<(1-10)> / CONH2

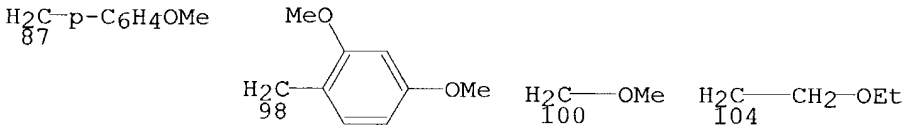
G3 = (2-) H / alkyl<(1-10)> (SO OH) / OH / alkoxy<(1-10)> / alkyl<(1-10)> (SR alkoxy<(1-10)>) / alkoxycarbonyl<(1-10)> / CONH2

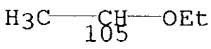
G4 = (2-) H / alkyl<(1-10)> (SO OH) / OH / alkoxy<(1-10)> / alkyl<(1-10)> (SR alkoxy<(1-10)>) / alkoxycarbonyl<(1-10)> / CONH2

G5 = (2-) H / alkyl<(1-10)> (SO OH) / OH / alkoxy<(1-10)> / alkyl<(1-10)> (SR alkoxy<(1-10)>) / alkoxycarbonyl<(1-10)> / CONH2

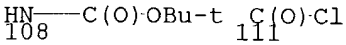
G6 = COMe / 55 / 60 / 64 / 75 / 78 / 81 / alkyl (SR (2) alkoxy) / 2-tetrahydrofuryl / CHPh2 / acyl / alkanoyl / COPh (SO) / CH2Ph / Bu-t / CPh3 / 87 / 98 / alkyl<(1-10)> (SR alkoxy<(1-10)>) / 100 / 104 / 105 / 2-tetrahydropyranyl / CONH2 / alkoxycarbonyl<(1-10)> / CO2Bu-t / CO2Me / R<TX "sulfur protecting group">

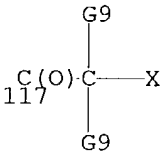


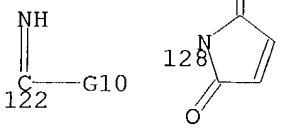


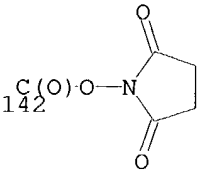


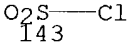
G7 = H / CHO / CO2H / OH / NH2 / 108 / 111 / 117 / 122 / 128 / 142 / NCO / NCS / OPh (SR (4) F) / 143 / alkoxyaminocarbonyl / R / 145 / 147 / 185 / 186 / 187 / 192 / 195 / **234** / 249

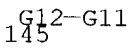


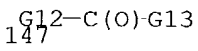


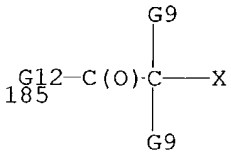


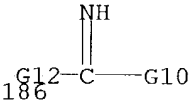


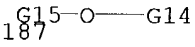


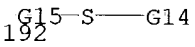


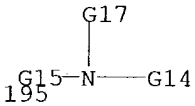


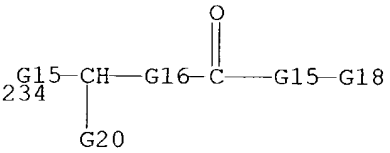


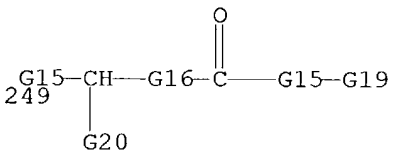






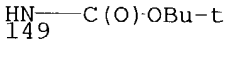


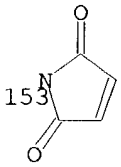


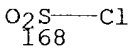


G9 = H / X
G10 = OH / 125

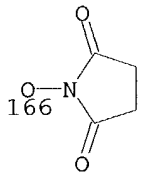
G11 = H / OH / NH2 / 149 / 153 / NCO / NCS /
OPh (SR (4) F) / 168 / R



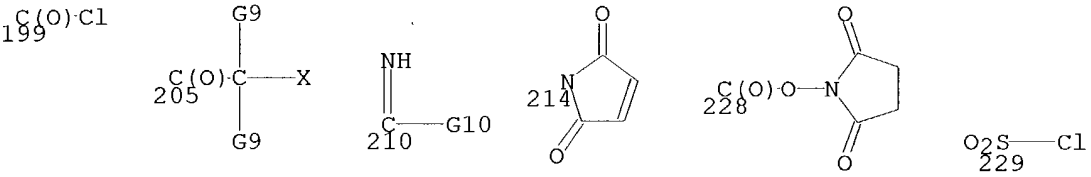


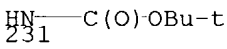


G12 = (1-10) CH2
G13 = H / OH / Cl / 166 / alkoxyamino

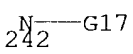


G14 = H / CHO / CO2H / OH / NH2 / 231 / 199 / 205 / 210 / 214 / 228 / NCO / NCS / OPh (SR (4) F) / 229 / alkoxyaminocarbonyl / R

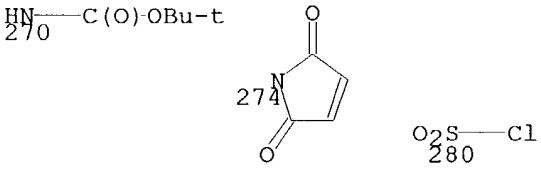




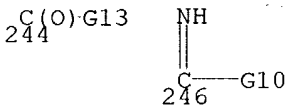
G15 = **(0-10) CH2**
G16 = O / S / **242**



G17 = H / alkyl<(1-10)> (SO OH) / OH / alkoxy<(1-10)> / alkyl<(1-10)> (SR alkoxy<(1-10)>) / alkoxycarbonyl<(1-10)> / CONH2
G18 = H / OH / NH2 / 270 / 274 / NCO / NCS / OPh (SR (4) F) / **280** / R



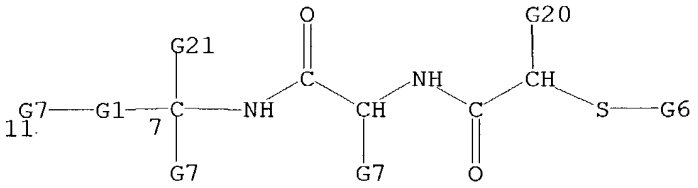
G19 = 244 / 246



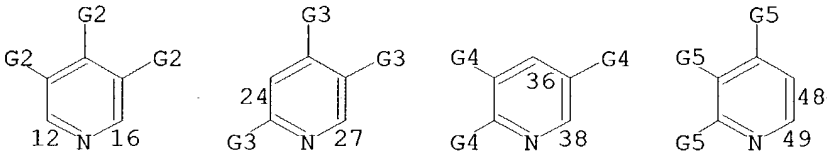
G20 = H / alkyl<(1-10)> (SO OH) / OH / alkoxy<(1-10)> / alkyl<(1-10)> (SR alkoxy<(1-10)>) / alkoxycarbonyl<(1-10)> / CONH2

G21 = H / R
MPL: claim 1

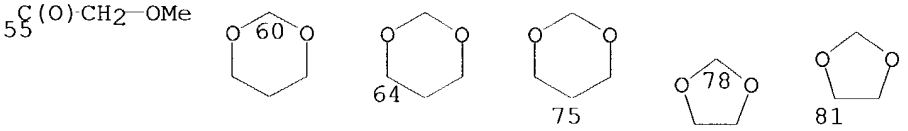
MSTR 1B

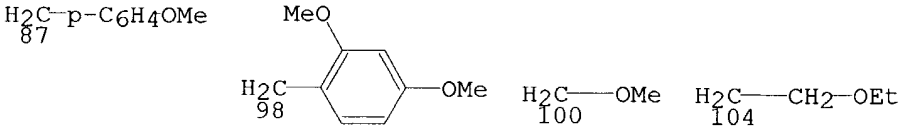


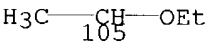
G1 = 16-7 12-11 / 27-7 24-11 / 38-7 36-11 / 49-7 48-11



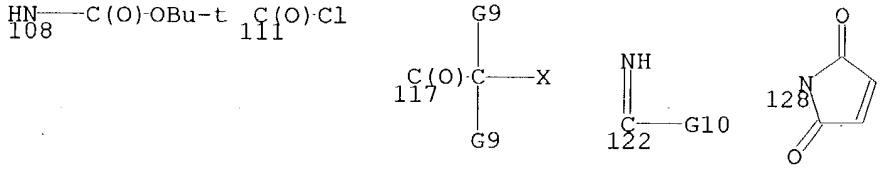
G2 = (2-) H / alkyl<(1-10)> (SO OH) / OH /
alkoxy<(1-10)> / alkyl<(1-10)> (SR alkoxy<(1-10)>) /
alkoxycarbonyl<(1-10)> / CONH2
G3 = (2-) H / alkyl<(1-10)> (SO OH) / OH /
alkoxy<(1-10)> / alkyl<(1-10)> (SR alkoxy<(1-10)>) /
alkoxycarbonyl<(1-10)> / CONH2
G4 = (2-) H / alkyl<(1-10)> (SO OH) / OH /
alkoxy<(1-10)> / alkyl<(1-10)> (SR alkoxy<(1-10)>) /
alkoxycarbonyl<(1-10)> / CONH2
G5 = (2-) H / alkyl<(1-10)> (SO OH) / OH /
alkoxy<(1-10)> / alkyl<(1-10)> (SR alkoxy<(1-10)>) /
alkoxycarbonyl<(1-10)> / CONH2
G6 = COMe / 55 / 60 / 64 / 75 / 78 / 81 /
alkyl (SR (2) alkoxy) / 2-tetrahydrofuryl / CHPh2 / acyl /
alkanoyl / COPh (SO) / CH2Ph / Bu-t / CPh3 / 87 / 98 /
alkyl<(1-10)> (SR alkoxy<(1-10)>) / 100 / 104 / 105 /
2-tetrahydropyranyl / CONH2 / alkoxycarbonyl<(1-10)> /
CO2Bu-t / CO2Me / R<TX "sulfur protecting group">

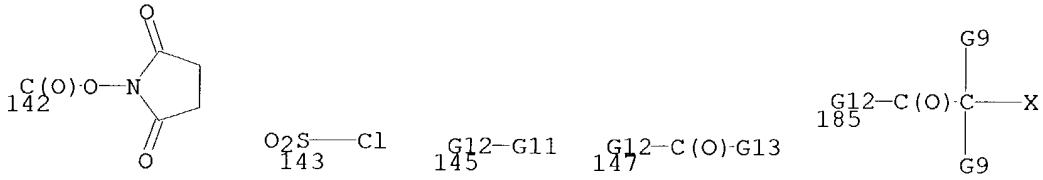


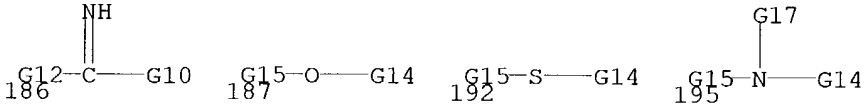


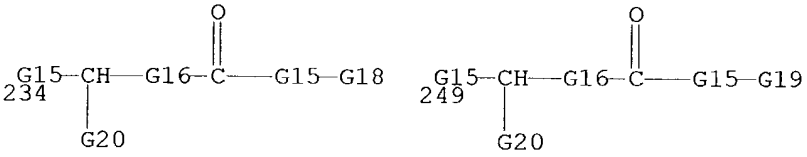


G7 = H / CHO / CO2H / OH / NH2 / 108 / 111 / 117 / 122 / 128 / 142 / NCO / NCS / OPh (SR (4) F) / 143 / alkoxyaminocarbonyl / R / 145 / 147 / 185 / 186 / 187 / 192 / 195 / **234** / 249

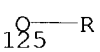




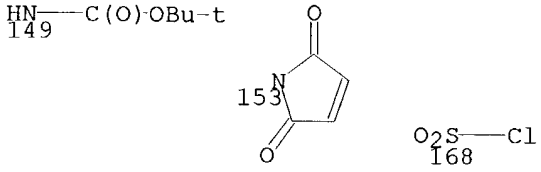




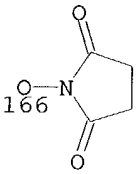
G9 = H / X
G10 = OH / 125



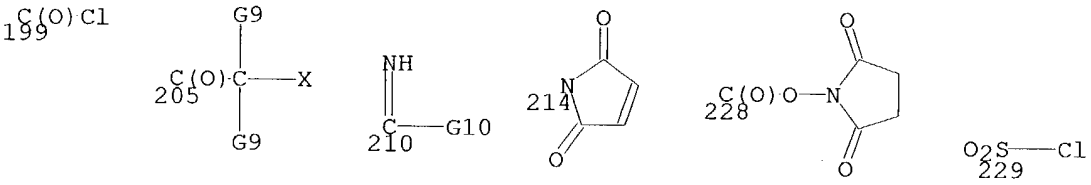
G11 = H / OH / NH2 / 149 / 153 / NCO / NCS / OPh (SR (4) F) / 168 / R

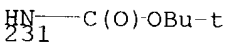


G12 = (1-10) CH2
G13 = H / OH / Cl / 166 / alkoxyamino

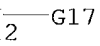


G14 = H / CHO / CO2H / OH / NH2 / 231 / 199 / 205 / 210 / 214 / 228 / NCO / NCS / OPh (SR (4) F) / 229 / alkoxyaminocarbonyl / R

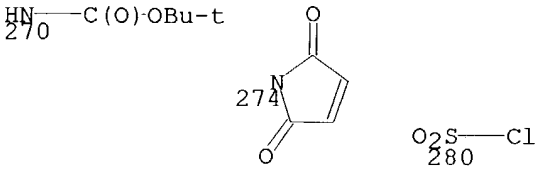




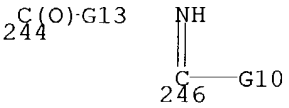
G15 = **(0-10) CH2**
G16 = O / S / **242**



G17 = H / alkyl<(1-10)> (SO OH) / OH / alkoxy<(1-10)> / alkyl<(1-10)> (SR alkoxy<(1-10)>) / alkoxycarbonyl<(1-10)> / CONH2
G18 = H / OH / NH2 / 270 / 274 / NCO / NCS / OPh (SR (4) F) / **280** / R



G19 = 244 / 246



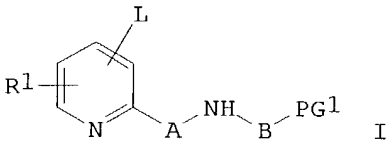
G20 = H / alkyl<(1-10)> (SO OH) / OH / alkoxy<(1-10)> / alkyl<(1-10)> (SR alkoxy<(1-10)>) / alkoxycarbonyl<(1-10)> / CONH2
G21 = H / R
MPL: claim 1

ACCESSION NUMBER: 119:278760 MARPAT
TITLE: Radiolabeled peptide compounds for imaging and therapy
INVENTOR(S): Lyle, Leon; Rajagopalan, Raghavan; Deutsch, Karen; Dunn, Thomas Jeffrey; Srinivasan, Ananthachari; Vanderheyden, J. L.
PATENT ASSIGNEE(S): Mallinckrodt Medical, Inc., USA
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9315770	A1	19930819	WO 1993-US939	19930204
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5371184	A	19941206	US 1992-831780	19920205
US 5382654	A	19950117	US 1992-831724	19920205
AU 9336067	A1	19930903	AU 1993-36067	19930204
EP 642357	A1	19950315	EP 1993-904844	19930204
EP 642357	B1	20010725		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
JP 08504166	T2	19960507	JP 1993-514154	19930204
EP 1099693	A1	20010516	EP 2000-204594	19930204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE				
AT 203417	E	20010815	AT 1993-904844	19930204
US 5753205	A	19980519	US 1995-372547	19950113

PRIORITY APPLN. INFO.:
US 1992-831724 19920205
US 1992-831780 19920205
US 1993-13527 19930204
EP 1993-904844 19930204
WO 1993-US939 19930204

GI



I

AB A somatostatin or hirudin peptide, or a peptide with somatostatin receptor- or hirudin receptor-binding specificity, is conjugated to a pyridine derivative I [R1 = H, OH, alkyl, alkoxy, hydroxyalkyl, carbamoyl, etc.; L = H, (CH2)mEX, etc.; E = O, S, R1, bond; X = H, OH, NH2, CHO, CO2H, etc.; m = 0-10; A = CLR1, CHR1CLR1; B = COCHLNHCOCHR1, etc.; PG1 = Ac, S-acyl, alkoxyalkyl, alkoxycarbonyl, etc.] chelated with a radionuclide (e.g. 99mTc) for use in diagnostic imaging and radiotherapy of tumors and (for hirudin) imaging of blood clots. Thus, 2-aza-4-[N-(S-benzoyl)mercaptoacetyl-8-[N-(t-butoxy)carbonyl]amino-3-oxo-1-(2-pyridyl)octane was prepared by reaction of 4-amino-2-aza-8-[N-(t-butoxy)carbonyl]amino-3-oxo-1-(2-pyridyl)octane with N-(S-benzoyl)mercaptoacetoxysuccinimide at ambient temperature The product was conjugated with somatostatin, complexed with 99mTc by reaction with SnCl2 and 99mTcO4-, and lyophilized.

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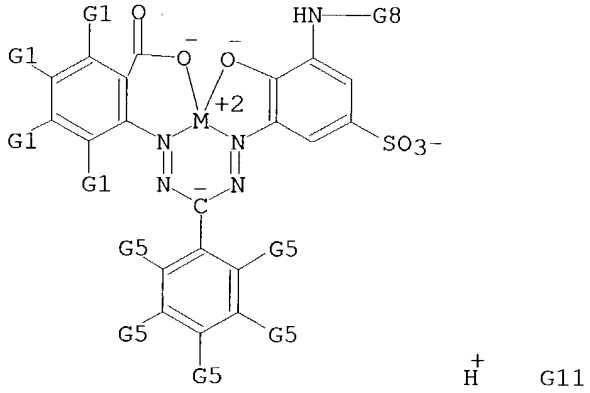
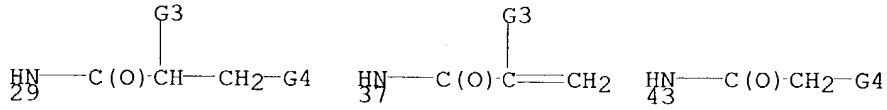
MSTR 1

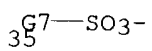


G11

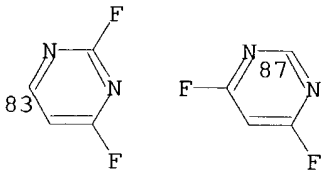
G1 = (2-) H / (-1) G2 / (-2) carboxylate
G2 = sulfonate / NHCOMe / 29 / 37 / 43



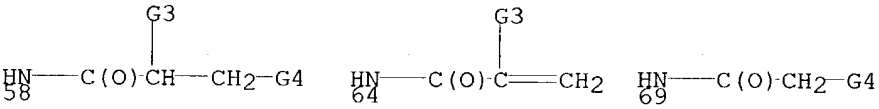
G3 = H / Cl / Br
G4 = Cl / Br / 35



G5 = (3-) H / (-1) G6 / (-1) G10
G6 = X / alkyl<(1-4)> / alkoxy<(1-4)> / **carboxylate** / sulfonate / (SC Me / OMe / Cl)
G7 = O / **S**
G8 = 83 / 87

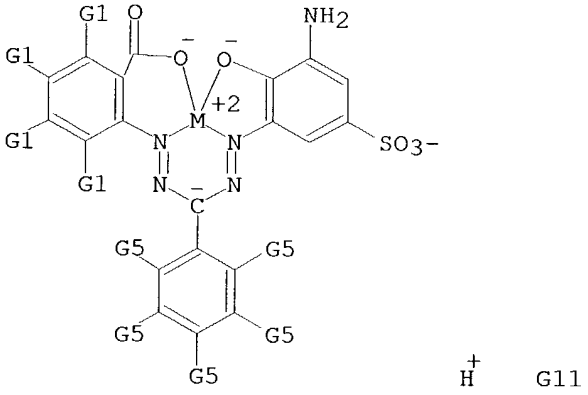


G10 = carboxylate / sulfonate / NHCOMe / 58 / 64 / **69**

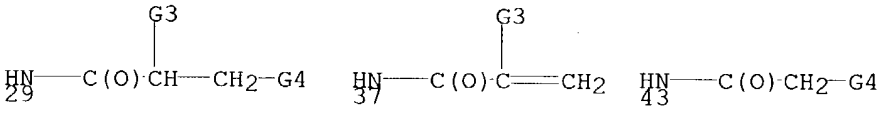


G11 = Cu
DER: and salts
MPL: claim 1

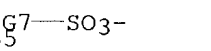
MSTR 2



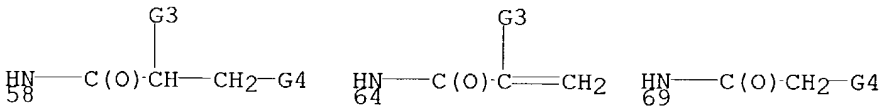
G1 = (2-) H / (-1) G2 / (-2) carboxylate
G2 = sulfonate / NHCOMe / 29 / 37 / 43



G3 = H / Cl / Br
G4 = Cl / Br / 35



G5 = (3-) H / (-1) G6 / (-1) G10
G6 = X / alkyl<(1-4)> / alkoxy<(1-4)> / **carboxylate** / sulfonate / (SC Me / OMe / Cl)
G7 = O / **S**
G10 = carboxylate / sulfonate / NHCOMe / 58 / 64 / **69**

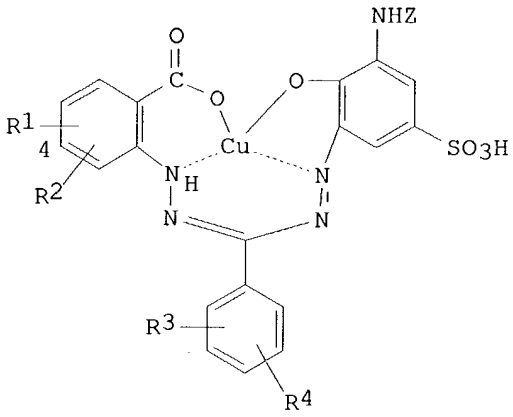


G11 = Cu
MPL: claim 9

ACCESSION NUMBER: 119:228028 MARPAT
TITLE: Fiber-reactive formazan dyes, their preparation and use
INVENTOR(S): Gisler, Markus; Wald, Roland
PATENT ASSIGNEE(S): Sandoz Ltd., Switz.
SOURCE: Brit. UK Pat. Appl., 16 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2262532	A1	19930623	GB 1992-26230	19921216
GB 2262532	B2	19950426		
DE 4241918	A1	19930624	DE 1992-4241918	19921211
CH 684483	A	19940930	CH 1992-3834	19921216
FR 2685343	A1	19930625	FR 1992-15353	19921217
FR 2685343	B1	19950217		
JP 07188573	A2	19950725	JP 1992-338343	19921218
US 5491221	A	19960213	US 1994-247154	19940520
PRIORITY APPLN. INFO.:			DE 1991-4142126	19911220
			US 1992-992980	19921218
			US 1993-128448	19930928

GI



I

AB The dyes are represented in the acid form as I (R1 = H, CO2H; R2, R3 = H, CO2H, SO3H, NHAc, NHCOCHR5CH2R6, NHCOCR5:CH2, NHCOCH2R6; R4 = H, halogen, C1-4 alkyl, C1-4 alkoxy, CO2H, SO3H; R5 = H, Cl, Br; R6 = Cl, Br, OSO3H, SSO3H; Z = difluoropyrimidinyl) and are prepared by reaction of I (Z = H) with 2,4,6-trifluoropyrimidine (II). Thus, I (R1 = R3 = R4 = Z = H, R2 = 4-SO3H) was stirred overnight with II in water at pH 8 to give the corresponding formazan dye, fast blue on cotton.

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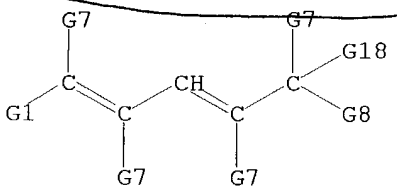
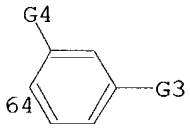
(ALL HITs ARE ITERATION INCOMPLETES)

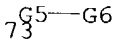
MSTR 1B ITERATION INCOMPLETE



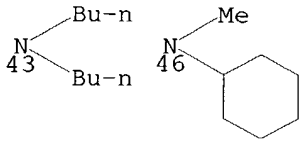
G1 = aryl (SR (1-) G2) / (EX 64)



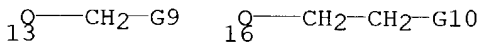
G2 = (1-) NH2 (SO) / R / (EX alkyl / alkoxy / aryloxy / X / NO2 / CN / 73 / alkylthio / arylsulfonyl / Ph)



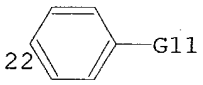
G3 = NMe2 / NEt2 / 43 / 46 / pyrrolidino



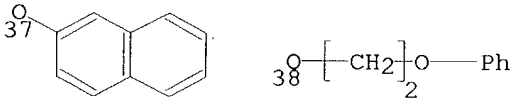
G4 = H / OEt / Me / Cl
G5 = C(O) / SO2
G6 = NH2 (SR) / OH (SR)
G7 = H / R
G8 = alkoxy (SR (1-) G12) / (EX 13 / 16)



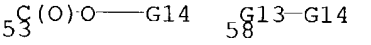
G9 = 22 / 4-pyridyl



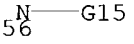
G10 = OPh / Ph / 37 / 38 / SPh



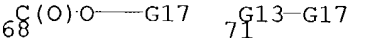
G11 = H / Cl / Me
G12 = aryl / R / (EX 58 / 53)



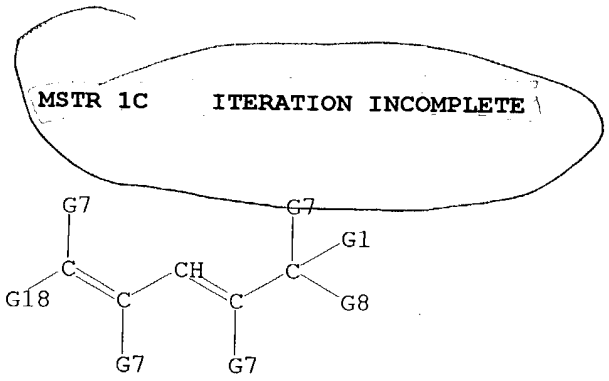
G13 = O / S / S(O) / SO2 / C(O) / NH / 56



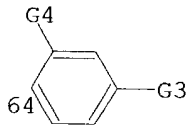
G14 = alkyl (SO (1-) G16) / aryl
G15 = alkyl / aryl / acyl
G16 = aryl / R / (EX 68 / 71)



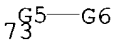
G17 = alkyl (SO) / aryl
G18 = Hy (SR (1-) G2)
MPL: claim 1



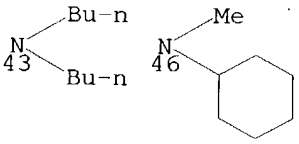
G1 = aryl (SR (1-) G2) / (EX 64)



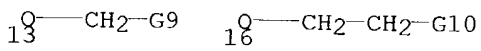
G2 = (1-) NH2 (SO) / R / (EX alkyl / alkoxy / aryloxy / X / NO2 / CN / 73 / alkylthio / arylsulfonyl / Ph)



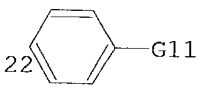
G3 = NMe2 / NEt2 / 43 / 46 / pyrrolidino



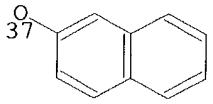
G4 = H / OEt / Me / Cl
G5 = C(O) / SO2
G6 = NH2 (SR) / OH (SR)
G7 = H / R
G8 = alkoxy (SR (1-) G12) / (EX 13 / 16)

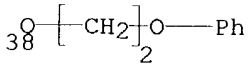


G9 = 22 / 4-pyridyl

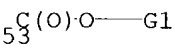


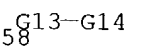
G10 = OPh / Ph / 37 / 38 / SPh



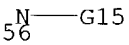


G11 = H / Cl / Me
G12 = aryl / R / (EX 58 / 53)

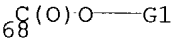


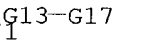


G13 = O / S / S(O) / SO2 / C(O) / NH / 56



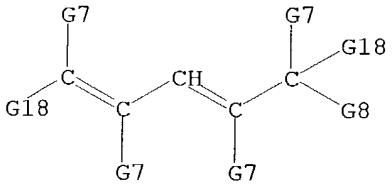
G14 = alkyl (SO (1-) G16) / aryl
G15 = alkyl / aryl / acyl
G16 = aryl / R / (EX 68 / 71)



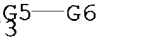


G17 = alkyl (SO) / aryl
G18 = Hy (SR (1-) G2)
MPL: claim 1

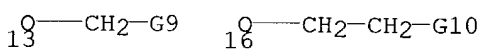
MSTR 1D ITERATION INCOMPLETE



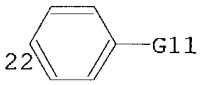
G2 = (1-) NH2 (SO) / R / (EX alkyl / alkoxy / aryloxy / X / NO2 / CN / 73 / alkylthio / arylsulfonyl / Ph)



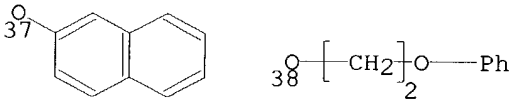
G5 = C(O) / SO2
G6 = NH2 (SR) / OH (SR)
G7 = H / R
G8 = alkoxy (SR (1-) G12) / (EX 13 / 16)



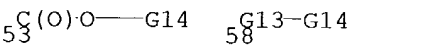
G9 = 22 / 4-pyridyl



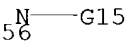
G10 = OPh / Ph / 37 / 38 / SPh



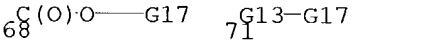
G11 = H / Cl / Me
G12 = aryl / R / (EX 58 / 53)



G13 = O / S / S(O) / SO2 / C(O) / NH / 56

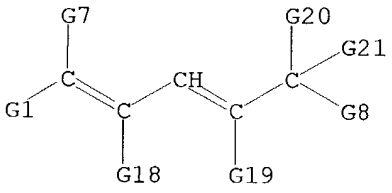


G14 = alkyl (SO (1-) G16) / aryl
G15 = alkyl / aryl / acyl
G16 = aryl / R / (EX 68 / 71)

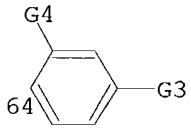


G17 = alkyl (SO) / aryl
G18 = Hy (SR (1-) G2)
MPL: claim 1

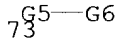
MSTR 1F ITERATION INCOMPLETE



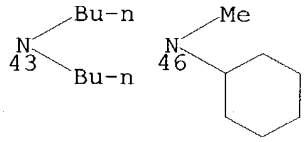
G1 = aryl (SR (1-) G2) / (EX 64)



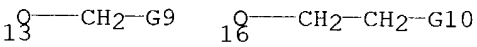
G2 = (1-) NH2 (SO) / R / (EX alkyl / alkoxy / aryloxy / X / NO2 / CN / 73 / alkylthio / arylsulfonyl / Ph)



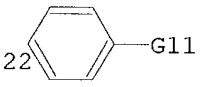
G3 = NMe2 / NEt2 / 43 / 46 / pyrrolidino



G4 = H / OEt / Me / Cl
G5 = C(O) / SO2
G6 = NH2 (SR) / OH (SR)
G7 = H
G8 = alkoxy (SR (1-) G12) / (EX 13 / 16)

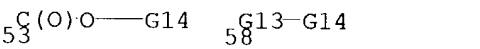


G9 = 22 / 4-pyridyl

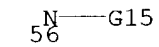


G10 = OPh / Ph / 37 / 38 / SPh

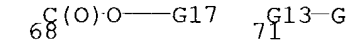
G11 = H / Cl / Me
G12 = aryl / R / (EX 58 / 53)



G13 = O / S / S(O) / SO2 / C(O) / NH / 56

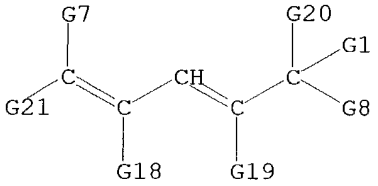


G14 = alkyl (SO (1-) G16) / aryl
G15 = alkyl / aryl / acyl
G16 = aryl / R / (EX 68 / 71)

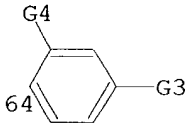


G17 = alkyl (SO) / aryl
G18 = H
G19 = H
G20 = H
G21 = Hy (SR (1-) G2)
G7 +G18= R<TX "ring moiety">
G18+G19= R<TX "ring moiety"> / (EX CH2CH2CH2)
G19+G20= R<TX "ring moiety">
MPL: claim 1

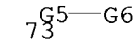
MSTR 1G ITERATION INCOMPLETE



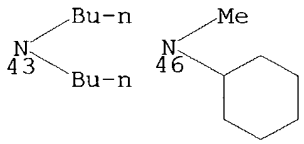
G1 = aryl (SR (1-) G2) / (EX 64)



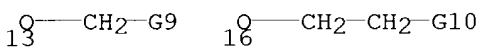
G2 = (1-) NH2 (SO) / R / (EX alkyl / alkoxy / aryloxy / X / NO2 / CN / 73 / alkylthio / arylsulfonyl / Ph)



G3 = NMe2 / NEt2 / 43 / 46 / pyrrolidino

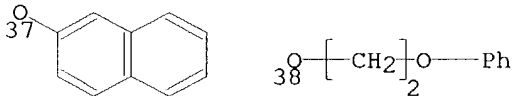


G4 = H / OEt / Me / Cl
G5 = C(O) / SO2
G6 = NH2 (SR) / OH (SR)
G7 = H
G8 = alkoxy (SR (1-) G12) / (EX 13 / 16)

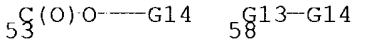


G9 = 22 / 4-pyridyl

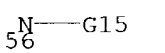
G10 = OPh / Ph / 37 / 38 / SPh



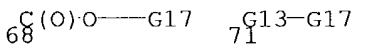
G11 = H / Cl / Me
G12 = aryl / R / (EX 58 / 53)



G13 = O / S / S(O) / SO2 / C(O) / NH / 56



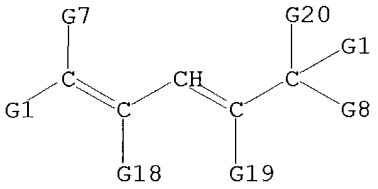
G14 = alkyl (SO (1-) G16) / aryl
G15 = alkyl / aryl / acyl
G16 = aryl / R / (EX 68 / 71)



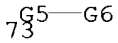
G17 = alkyl (SO) / aryl
G18 = H
G19 = H
G20 = H

G21 = Hy (SR (1-) G2)
G7 +G18= R<TX "ring moiety">
G18+G19= R<TX "ring moiety"> / (EX CH2CH2CH2)
G19+G20= R<TX "ring moiety">
MPL: claim 1

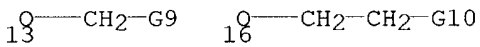
MSTR 1H ITERATION INCOMPLETE



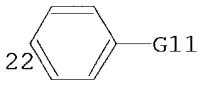
G1 = Hy (SR (1-) G2)
G2 = (1-) NH2 (SO) / R / (EX alkyl / alkoxy / aryloxy / X / NO2 / CN / 73 / alkylthio / arylsulfonyl / Ph)



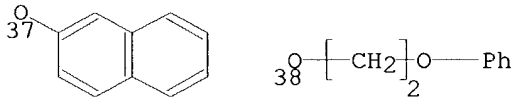
G5 = C(O) / SO2
G6 = NH2 (SR) / OH (SR)
G7 = H
G8 = alkoxy (SR (1-) G12) / (EX 13 / 16)



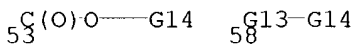
G9 = 22 / 4-pyridyl



G10 = OPh / Ph / 37 / 38 / SPh



G11 = H / Cl / Me
G12 = aryl / R / (EX 58 / 53)



G13 = O / S / S(O) / SO2 / C(O) / NH / 56

56 N—G15

G14 = alkyl (SO (1-) G16) / aryl
G15 = alkyl / aryl / acyl
G16 = aryl / R / (EX 68 / 71)

68 C(O)O—G17 71 G13—G17

G17 = alkyl (SO) / aryl
G18 = H
G19 = H
G20 = H
G7 +G18= R<TX "ring moiety">
G18+G19= R<TX "ring moiety"> / (EX CH2CH2CH2)
G19+G20= R<TX "ring moiety">
MPL: claim 1

ACCESSION NUMBER: 116:13416 MARPAT
TITLE: Pressure- and heat-sensitive recording materials with good sensitivity, storability and image stability
INVENTOR(S): Sano, Masajiro; Takashima, Masanobu; Satomura, Masato
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03142277	A2	19910618	JP 1989-282319	19891030
PRIORITY APPLN. INFO.:			JP 1989-282319	19891030

AB The title materials utilizes coloration by contact between electron-donating leuco dye Ar1R1CH:CR2:CH:CHR3CR4R5Ar2 (Ar1, Ar2 = amine residue-containing aryl or heterocyclic group; R1-4 = H, monovalent group; R5 = aryl group-containing alkoxy group; R1-4 may bond together forming 4- to 12-membered rings with or without containing heteroatom) and electron-accepting compound

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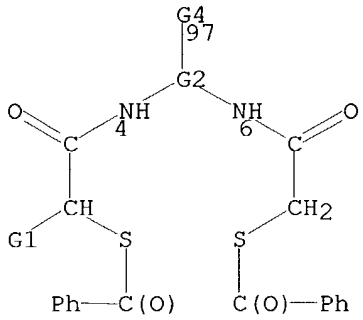
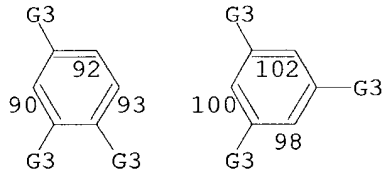
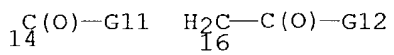
MSTR 4B



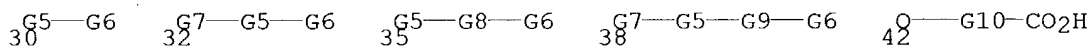
G1 = H / alkoxycarbonyl<(1-4)>
G2 = **90-4 93-6 92-97** / **90-6 93-4 92-97** /
90-4 92-6 93-97 / **90-6 92-4 93-97** / 100-4 102-6 98-97

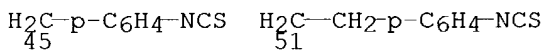


G3 = H / **14** / 16

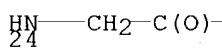


G4 = R<TX "group capable of reacting with peptides or binding with a divalent bridging group"> / (EX 30 / 32 / NCS / NCO / 35 / 38 / 42 / 45 / 51)





G5 = **alkylene<(1-6)>**
G6 = NCS / NCO / **CO2H**
G7 = O / NH
G8 = phenylene
G9 = phenylene
G10 = (2-6) CH2
G11 = alkoxy<(1-4)> / NH2 / 24



G12 = alkoxy<(1-4)>

MPL: claim 6

ACCESSION NUMBER: 115:35713 MARPAT
TITLE: Labeled peptide drug compounds with chelating agents
INVENTOR(S): Albert, Rainer; Bauer, Wilfried; Pless, Janos
PATENT ASSIGNEE(S): Sandoz-Erfindungen Verwaltungsgesellschaft m.b.H., Austria; Sandoz-Patent-G.m.b.H.; Sandoz A.-G.
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9101144	A1	19910207	WO 1990-EP1169	19900712
W: AU, CA, FI, HU, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
CA 2032499	AA	19910121	CA 1990-2032499	19900712
CA 2032499	C	20020514		
AU 9060709	A1	19910222	AU 1990-60709	19900712
AU 638043	B2	19930617		
EP 436005	A1	19910710	EP 1990-911595	19900712
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
HU 56583	A2	19910930	HU 1990-6177	19900712
HU 219336	B	20010328		
JP 04500823	T2	19920213	JP 1990-510843	19900712
IL 95118	A1	19950124	IL 1990-95118	19900718
US 5686410	A	19971111	US 1994-276280	19940718
US 2003198598	A1	20031023	US 2003-373371	20030224

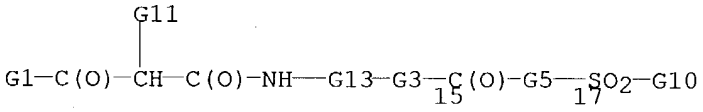
PRIORITY APPLN. INFO.:

GB 1989-16597	19890720
GB 1990-4258	19900226
GB 1990-5295	19900309
WO 1990-EP1169	19900712
US 1991-671763	19910318
US 1993-17723	19930216
US 1993-107723	19930820
US 1994-276280	19940718
US 1997-905929	19970805
US 2000-604211	20000627

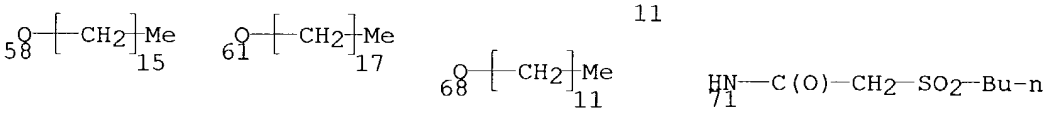
AB Chelating agents are linked to amino groups of biol.-active peptides (growth factors, hormones, interferons, cytokines), the amino groups having no binding affinity to target receptors. Complexes formed by the above modified peptides are useful as drugs or in-vivo diagnostic agents. The chelating agents (Markush structures given) are EDTA, DTPA, DOTA, etc. A solution of H2NCH2CH2CO2Me.HCl and NaHCO3 in water was treated with DTPA dianhydride, followed by pH adjustment to 3 with HCl and then to 5.5 with NaOH, to give DTPA-HNCH2CH2CO2Me, which was treated with hydrazine hydrate in MeOH. The resulting DTPA-NHCH2CH2CONHNH2 was converted into an azide and coupled with mEGF, to give DTPA-β-Ala-mEGF, which was used for complexing 111InCl3. The product showed high-affinity binding to EGF receptors of human tumors, in vitro.

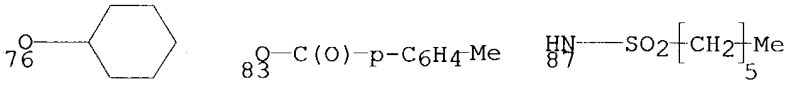
L23 ANSWER 31 OF 31 MARPAT COPYRIGHT 2004 ACS on STN

MSTR 1

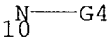


G1 = Bu-t / aryl / (EX Ph (SO G14) / naphthyl (SO))
G2 = (1) Cl / R / (EX X / alkyl / alkoxy / aryloxy / acyloxy / acylamino / **CONH2** / alkylsulfonylamino / arylsulfonylamino / SO2NH2 / Me / Et / 68 / CF3 / OBu-t / NHCOMe / 58 / 61 / OMe / **71** / 76 / OPh / OCOMe / 83 / 87)

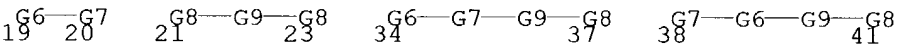


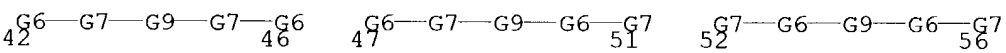


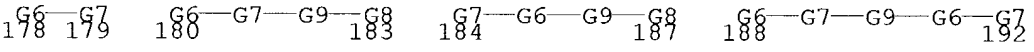
G3 = NH / 10



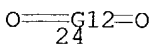
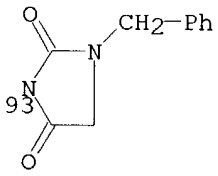
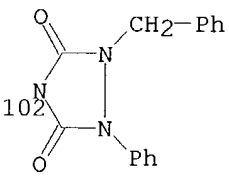
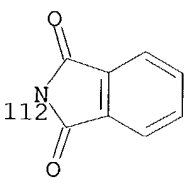
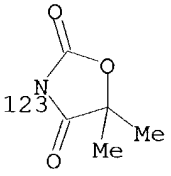
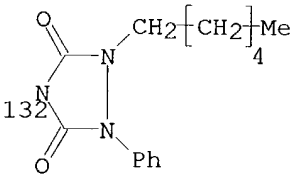
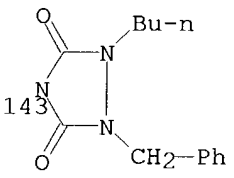
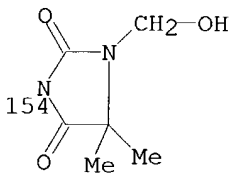
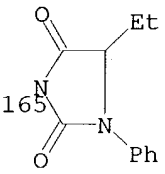
G4 = alkyl / aryl / Hy
G5 = alkylene / cycloalkylene / arylene / 19-15 20-17 / 178-17 179-15 / 21-15 23-17 / 34-15 37-17 / 180-17 183-15 / 38-15 41-17 / 184-17 187-15 / 42-15 46-17 / 47-15 51-17 / 188-17 192-15 / 52-15 56-17



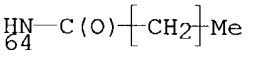




G6 = arylene
G7 = alkylene
G8 = alkylene / arylene (SO alkyl)
G9 = R<TX "divalent linkage">
G10 = alkyl / cycloalkyl / aryl / Hy
G11 = 24 / (EX 93 / 102 / 112 / 123 / 132 / 143 / 154 / 165)

G12 = Hy<RC (1), RS (0-) E5 (0-) E6 (0) OTHER,
EC (1-) N (2-) C, AN (1-) N (2-) C> (SO)
G13 = **phenylene (SR (1-) G2)**
G14 = 172 / Me / 175 / Cl / OMe / 64



MPL: claim 1

ACCESSION NUMBER: 109:180355 MARPAT
TITLE: Silver halide color photographic material containing a novel yellow coupler with good developability
INVENTOR(S): Tsuruta, Mayumi; Mizukura, Noboru; Nakagawa, Satoshi
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63094238	A2	19880425	JP 1986-240060	19861008

PRIORITY APPLN. INFO.: JP 1986-240060 19861008
GI For diagram(s), see printed CA Issue.
AB The claimed photog. material comprising a substrate and ≥1 Ag

halide emulsion layer(s) contains in ≥1 of the emulsion layer(s) a coupler of the formula I (R = tert-Bu, aryl; R1 = group capable of substituting in the benzene ring; R2 = H, alkyl, aryl, heterocyclic group; Z = alkylene, cycloalkylene, arylene, alkylene-arylene, arylene-alkylene, Z1Z2Z3; Z1, Z3 = alkylene, arylene, alkylenarylene arylenealkylene; Z2 = bivalent linkage; R3 = alkyl, cycloalkyl, aryl, heterocyclic ring; A = 5- or 6-membered ring). The coupler is a 2-equivalent yellow coupler having excellent color developability and less susceptible to the variation of developer pH, and also with low tendency of fog generation. Thus, an exptl. color paper with Ag(Br, Cl) emulsion layer in which the coupler II of the present invention was incorporated had the mentioned advantages.

=> log h